| L | Hits | Search T xt | DB | Time stamp |
|--------|-------|---|-----------|------------|
| Number | | | | |
| - | 10 | matsum t and seng ku | USPAT; | 2002/07/01 |
| | | | US-P PUB; | 13:35 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 0 | (""electrode structure"").PN. | USPAT; | 2002/07/01 |
| | | | US-PGPUB; | 13:36 |
| | • | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| • | 20363 | "electrode structure" | USPAT; | 2002/07/01 |
| | | | US-PGPUB; | 13:38 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| • | 3 | (matsumoto and sengoku | USPAT; | 2002/07/01 |
| | |) and "titanium nitride" and ("barrier film" or | US-PGPUB; | 13:41 |
| | | "barrier layer" or "barrier metal layer" or | EPO; JPO; | |
| | | "barrier metal film") | DERWENT; | |
| | | | IBM_TDB | |
| - | 352 | electrode and "titanium nitride" and | USPAT; | 2002/07/01 |
| | | ("barrier film" or "barrier layer" or "barrier | US-PGPUB; | 13:49 |
| | | metal layer" or "barrier metal film") and | EPO; JPO; | |
| | | melting and point | DERWENT; | |
| | | | IBM_TDB | |
| - | 2 | (electrode and "titanium nitride" and | USPAT; | 2002/07/01 |
| | | ("barrier film" or "barrier layer" or "barrier | US-PGPUB; | 13:45 |
| | | metal layer" or "barrier metal film") and | EPO; JPO; | |
| | | melting and point) and "stoichiometric ratio" | DERWENT; | |
| | | | IBM_TDB | |
| - | 15 | (electrode and "titanium nitride" and | USPAT; | 2002/07/01 |
| | | ("barrier film" or "barrier layer" or "barrier | US-PGPUB; | 13:48 |
| | | metal layer" or "barrier metal film") and | EPO; JPO; | |
| | | melting and point) and ("second barrier | DERWENT; | |
| | | metal layer" or "second barrier metal film" | IBM_TDB | |
| | | or "second barrier layer" or "second barrier | | |
| | | film") | | |
| • | 3 | ((electrode and "titanium nitride" and | USPAT; | 2002/07/01 |
| | | ("barrier film" or "barrier layer" or "barrier | US-PGPUB; | 13:48 |
| i | | metal layer" or "barrier metal film") and | EPO; JPO; | |
| | | melting and point) and ("second barrier | DERWENT; | |
| | | metal layer" or "second barrier metal film" | IBM_TDB | : |
| | | or "second barrier layer" or "second barrier | | |
| | | film")) and electrode.ti,clms. | | |
| • | 24 | (electrode and "titanium nitride" and | USPAT; | 2002/07/01 |
| | | ("barrier film" or "barrier layer" or "barrier | US-PGPUB; | 14:01 |
| | | m tal lay r" r "barrier m tal film") and | EPO; JPO; | |
| | | melting and p int) and l ctr d .ti,clms. | DERWENT; | |
| | | | IBM_TDB | |

| • | 307197 | l ctr de.ti,clms. | USPAT; | 2002/07/01 |
|---|--------|--|-----------|------------|
| | | | US-PGPUB; | 14:02 |
| | | | EP ; JP ; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| _ | 1582 | electr de.ti,clms. and (("titanium nitride" r | USPAT; | 2002/07/01 |
| | 1002 | "TiN").ti,clms.) | US-PGPUB; | 14:04 |
| | 1 | The fitting in the fitting is a second of the fi | EPO; JPO; | 14.04 |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| | 10 | /olootrodo ti olmo and //!titonium nitrida!! or | ł | 2002/07/01 |
| • | 10 | (electrode.ti,clms. and (("titanium nitride" or | USPAT; | |
| | | "TiN").ti,clms.)) and "melting point" | US-PGPUB; | 14:04 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | _ | | IBM_TDB | |
| • | 8 | (electrode.ti,clms. and (("titanium nitride" or | USPAT; | 2002/07/01 |
| | | "TiN").ti,clms.)) and (second near5 barrier) | US-PGPUB; | 14:06 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 8 | (electrode.ti,clms. and (("titanium nitride" or | USPAT; | 2002/07/01 |
| | | "TiN").ti,clms.)) and (second near10 barrier) | US-PGPUB; | 14:06 |
| | | | EPO; JPO; | |
| | İ | | DERWENT; | • |
| | | | IBM_TDB | |
| - | 31718 | (second near10 (barrier or "titanium nitride" | USPAT; | 2002/07/01 |
| | | or TiN)) | US-PGPUB; | 14:08 |
| | | ,, | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 946 | ((second near10 (barrier or "titanium nitride" | USPAT; | 2002/07/01 |
| | | or TiN))) and (electrode.ti,clms.) | US-PGPUB; | 14:08 |
| | | or river, and telectrone tipelines, | EPO; JPO; | 17.00 |
| | | | DERWENT; | |
| | | | | |
| | 454 | (//acand mand | IBM_TDB | 2002/07/04 |
| • | 151 | (((second near10 (barrier or "titanium | USPAT; | 2002/07/01 |
| | | nitride" or TiN))) and (electrode.ti,clms.)) | US-PGPUB; | 14:10 |
| | | and "electrode structure" | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 88 | ((((second near10 (barrier or "titanium | USPAT; | 2002/07/01 |
| | | nitride" or TiN))) and (electrode.ti,clms.)) | US-PGPUB; | 14:10 |
| | | and "electrode structure") and (method | EPO; JPO; | |
| | | near10 electrode) | DERWENT; | |
| | | | IBM_TDB | |

| - 81 | (US-6348735-\$ r US-6211005-\$ or | USPAT; | 2002/07/01 |
|------|--|-----------|------------|
| | US-6066891-\$ or US-6051486-\$ r | US-PGPUB; | 14:16 |
| | US-6037663-\$ r US-5973408-\$ or | EPO; | |
| • | US-5703403-\$ r US-5619393-\$ r | DERWENT | |
| | US-5581436-\$ r US-5576928-\$ r | | |
| | US-5568422-\$ r US-5566045-\$ r | | |
| | US-5420612-\$ or US-5411912-\$ or | | |
| | US-5406447-\$ or US-5382817-\$ or | | |
| | US-5336922-\$ or US-3773554-\$ or | | |
| | US-6399982-\$ or US-6238994-\$ or | | |
| | US-6188097-\$ or US-6396097-\$ or | | |
| | US-6346746-\$ or US-6331356-\$ or | | |
| | US-6326936-\$ or US-6316831-\$).did. or | | |
| | (US-6274899-\$ or US-6218258-\$ or | | |
| | US-6218256-\$ or US-6188137-\$ or | | |
| | US-6130124-\$ or US-6114198-\$ or | | |
| | US-6089442-\$ or US-6051778-\$ or | | |
| | US-6050827-\$ or US-6037005-\$ or | | |
| | US-6016033-\$ or US-6010918-\$ or | | |
| | US-5998225-\$ or US-5940698-\$ or | | |
| | US-5930621-\$ or US-5917208-\$ or | | |
| | US-5885877-\$ or US-5851896-\$ or | | |
| | US-5849605-\$ or US-5804845-\$ or | | |
| | US-5798542-\$ or US-5744832-\$ or | | |
| | US-5739798-\$ or US-5708302-\$ or | | |
| | US-5693560-\$ or US-5688726-\$ or | | |
| | US-5668410-\$).did. or (US-5668040-\$ or | | |
| | US-5660177-\$ or US-5596431-\$ or | | |
| | US-5559399-\$ or US-5555486-\$ or | | |
| | US-5527735-\$ or US-5521405-\$ or | | |
| | US-5516716-\$ or US-5501995-\$ or | | |
| | US-5445711-\$ or US-5441909-\$ or | | |
| | US-5422307-\$ or US-5005102-\$ or | | |
| | US-4914046-\$ or US-4771211-\$ or | | |
| | US-4714586-\$ or US-4673455-\$ or | | |
| | US-4614575-\$).did. or (US-20020050644-\$ or | | |
| | US-20020030222-\$ or US-20020017673-\$ or | | |
| | US-20020038880-\$ or US-20020047148-\$ or | | |
| | US-20010010965-\$).did. or (WO-9634407-\$ or | | |
| | US-5521405-\$).did. or (EP-127281-\$ or | | |
| | WO-200193296-\$).did. | | |

| - | 35 | ((US-6348735-\$ r US-6211005-\$ or | USPAT; | 2002/07/01 |
|---|----|--|-----------|------------|
| | | US-6066891-\$ r US-6051486-\$ r | US-PGPUB; | 14:16 |
| | | US-6037663-\$ r US-5973408-\$ r | EPO; JPO; | |
| | | US-5703403-\$ r US-5619393-\$ or | DERWENT; | |
| | | US-5581436-\$ r US-5576928-\$ r | IBM_TDB | |
| | | US-5568422-\$ or US-5566045-\$ r | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-5406447-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-3773554-\$ or | | |
| | | US-6399982-\$ or US-6238994-\$ or | | |
| | | US-6188097-\$ or US-6396097-\$ or | | |
| | | US-6346746-\$ or US-6331356-\$ or | | |
| | , | US-6326936-\$ or US-6316831-\$).did. or | | |
| | | (US-6274899-\$ or US-6218258-\$ or | | |
| | | US-6218256-\$ or US-6188137-\$ or | | |
| | | US-6130124-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6051778-\$ or | | |
| | | US-6050827-\$ or US-6037005-\$ or | | |
| | | US-6016033-\$ or US-6010918-\$ or | | |
| | | US-5998225-\$ or US-5940698-\$ or | | |
| | | US-5930621-\$ or US-5917208-\$ or | | |
| | | US-5885877-\$ or US-5851896-\$ or | | |
| | | US-5849605-\$ or US-5804845-\$ or | | |
| | | US-5798542-\$ or US-5744832-\$ or | | |
| | | US-5739798-\$ or US-5708302-\$ or | | |
| | | US-5693560-\$ or US-5688726-\$ or | | |
| | Ì | US-5668410-\$).did. or (US-5668040-\$ or | | |
| | | US-5660177-\$ or US-5596431-\$ or | | |
| | | US-5559399-\$ or US-5555486-\$ or | | |
| | | US-5527735-\$ or US-5521405-\$ or | | |
| | | US-5516716-\$ or US-5501995-\$ or | | |
| | | US-5445711-\$ or US-5441909-\$ or | | |
| | | US-5422307-\$ or US-5005102-\$ or | | |
| | | US-4914046-\$ or US-4771211-\$ or | | |
| | | US-4714586-\$ or US-4673455-\$ or | | |
| | | US-4614575-\$).did. or (US-20020050644-\$ or | | |
| | | US-20020030222-\$ or US-20020017673-\$ or | | |
| | | US-20020038880-\$ or US-20020047148-\$ or | | |
| | | US-20010010965-\$).did. or (WO-9634407-\$ or | | |
| | | US-5521405-\$).did. or (EP-127281-\$ or | | |
| | | WO-200193296-\$).did.) and ratio | | |

| | 1 | | 1 | |
|---|----------|--|-----------|------------|
| - | 14 | (((US-6348735-\$ or US-6211005-\$ or | USPAT; | 2002/07/01 |
| | | US-6066891-\$ r US-6051486-\$ r | US-PGPUB; | 14:18 |
| | | US-6037663-\$ r US-5973408-\$ r | EPO; JPO; | |
| | ! | US-5703403-\$ r US-5619393-\$ r | DERWENT; | |
| | | US-5581436-\$ r US-5576928-\$ r | IBM_TDB | |
| | | US-5568422-\$ r US-5566045-\$ r | | |
| | : | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-5406447-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-3773554-\$ or | | |
| | | US-6399982-\$ or US-6238994-\$ or | | |
| | | US-6188097-\$ or US-6396097-\$ or | | |
| | | US-6346746-\$ or US-6331356-\$ or | | |
| | | US-6326936-\$ or US-6316831-\$).did. or | <u> </u> | |
| | | • | į | |
| | | (US-6274899-\$ or US-6218258-\$ or | | |
| | | US-6218256-\$ or US-6188137-\$ or | | |
| | | US-6130124-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6051778-\$ or | | |
| | | US-6050827-\$ or US-6037005-\$ or | | |
| | | US-6016033-\$ or US-6010918-\$ or | | |
| | | US-5998225-\$ or US-5940698-\$ or | | |
| | | US-5930621-\$ or US-5917208-\$ or | | |
| | | US-5885877-\$ or US-5851896-\$ or | | |
| | | US-5849605-\$ or US-5804845-\$ or | | |
| | | US-5798542-\$ or US-5744832-\$ or | | |
| | | US-5739798-\$ or US-5708302-\$ or | | |
| | | US-5693560-\$ or US-5688726-\$ or | | |
| | | US-5668410-\$).did. or (US-5668040-\$ or | | |
| | | US-5660177-\$ or US-5596431-\$ or | | |
| | | US-5559399-\$ or US-5555486-\$ or | | |
| | | US-5527735-\$ or US-5521405-\$ or | | |
| | | US-5516716-\$ or US-5501995-\$ or | | |
| | | | | |
| | | US-5445711-\$ or US-5441909-\$ or | | |
| | | US-5422307-\$ or US-5005102-\$ or | | |
| | | US-4914046-\$ or US-4771211-\$ or | | |
| | | US-4714586-\$ or US-4673455-\$ or | | |
| | | US-4614575-\$).did. or (US-20020050644-\$ or | | |
| | | US-20020030222-\$ or US-20020017673-\$ or | | |
| | | US-20020038880-\$ or US-20020047148-\$ or | | |
| | | US-20010010965-\$).did. or (WO-9634407-\$ or |] | |
| | | US-5521405-\$).did. or (EP-127281-\$ or | | |
| | | WO-200193296-\$).did.) and ratio) and | | |
| | | "melting point" | | |
| - | 8583 | matsumoto and electrode | USPAT; | 2002/07/01 |
| 1 | | | US-PGPUB; | 14:20 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| | 7 | (matsumoto and electrode) and sengoku | USPAT; | 2002/07/01 |
| - | , | matsumoto and cicotrode, and sengond | US-P PUB; | 14:19 |
| | | | EP ; JPO; | 17.15 |
| | | | | |
| | | · · · · · · · · · · · · · · · · · · · | DERWENT; | |
| | _ | | IBM_TDB | 0000/07/04 |
| - | 0 | 2002050756.URPN. | USPAT | 2002/07/01 |
| | <u> </u> | | <u> </u> | 14:20 |

| • | 0 | 2002026316.URPN. | USPAT | 2002/07/01 | |
|---|------|---|-----------|---------------------|--|
| | | | | 14:20 | |
| - | 0 | 2001332511.URPN. | USPAT | 2002/07/01 | |
| | | | | 14:20 | |
| - | 223 | matsumoto and "electrode structur" | USPAT; | 2002/07/01 | |
| | | | US-PGPUB; | 14:23 | |
| | | | EPO; JPO; | | |
| | ŀ | | DERWENT; | | |
| | | | IBM_TDB | | |
| - | 15 | (matsumoto and "electrode structure") and | USPAT; | 2002/07/01 | |
| | | "titanium nitride" | US-PGPUB; | 14:22 | |
| | | | EPO; JPO; | | |
| | | | DERWENT; | | |
| | | | IBM_TDB | | |
| • | 2 | matsumoto and michikazu and "electrode | USPAT; | 2002/07/01 | |
| | | structure" | US-PGPUB; | 14:24 | |
| | | | EPO; JPO; | | |
| | | | DERWENT; | | |
| | | | IBM_TDB | | |
| - | 13 | matsumoto and michikazu and electrode | USPAT; | 2002/07/01 | |
| | | | US-PGPUB; | 14:26 | |
| | | | EPO; JPO; | | |
| | | | DERWENT; | | |
| | | 2007247 117711 | IBM_TDB | 0000/07/04 | |
| • | 0 | 6297517.URPN. | USPAT | 2002/07/01 | |
| | | (UF002040U UF040700U UC054704U | HEDAT | 14:25 2002/07/01 | |
| - | 4 | ("5923048" "5942766" "6054721" | USPAT | 14:25 | |
| | 19 | "6150669").PN. 5726479.URPN. | USPAT | 2002/07/01 | |
| • | 19 | 3/204/3.URPR. | USPAI | 14:25 | |
| _ | 23 | ("multi-layered electrode structure" or | USPAT; | 2002/07/01 | |
| - | 23 | "multilayered electrode structure" or | US-PGPUB; | 14:28 | |
| | | "multi-layer electrode structure" or | EPO; JPO; | . 7.20 | |
| | | "multilayer electrode structure") and | DERWENT; | | |
| | | ("titanium nitride" or "TiN") | IBM TDB | | |
| - | 143 | "multi-layered electrode structure" or | USPAT; | 2002/07/01 | |
| | 1.43 | "multilayered electrode structure" or | US-PGPUB; | 14:29 | |
| | | "multi-layer electrode structure" or | EPO; JPO; | | |
| | | "multilayer electrode structure" | DERWENT; | | |
| | | | IBM_TDB | | |

| | 115 | (US-6348735-\$ r US-6211005-\$ r | USPAT; | 2002/07/01 |
|----------------|-------|---|-----------|------------|
| | | US-6066891-\$ r US-6051486-\$ r | US-P PUB; | 14:46 |
| | | US-6037663-\$ r US-5973408-\$ r | EPO; | |
| | l | US-5703403-\$ r US-5619393-\$ r | DERWENT | |
| | | US-5581436-\$ or US-5576928-\$ r | | |
| | | US-5568422-\$ r US-5566045-\$ r | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-5406447-\$ or US-5382817-\$ or | | |
| | İ | US-5336922-\$ or US-3773554-\$ or | | |
| | ľ | US-6399982-\$ or US-6238994-\$ or | | |
| | | US-6188097-\$ or US-6396097-\$ or | | |
| | | US-6346746-\$ or US-6331356-\$ or | | |
| | | US-6326936-\$ or US-6316831-\$).did. or | | |
| | | (US-6274899-\$ or US-6218258-\$ or | ļ | |
| | | US-6218256-\$ or US-6188137-\$ or | | |
| | | | | |
| | | US-6130124-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6051778-\$ or | | |
| | | US-6050827-\$ or US-6037005-\$ or | | |
| | | US-6016033-\$ or US-6010918-\$ or | | |
| | | US-5998225-\$ or US-5940698-\$ or | i | |
| | 1 | US-5930621-\$ or US-5917208-\$ or | | |
| | 1 | US-5885877-\$ or US-5851896-\$ or | | |
| | 1 | US-5849605-\$ or US-5804845-\$ or | | |
| |] | US-5798542-\$ or US-5744832-\$ or | | |
| | | US-5739798-\$ or US-5708302-\$ or | | |
| | 1 | US-5693560-\$ or US-5688726-\$ or | | |
| | | US-5668410-\$).did. or (US-5668040-\$ or | | |
| İ | | US-5660177-\$ or US-5596431-\$ or | | |
| | | US-5559399-\$ or US-5555486-\$ or | | |
| | | US-5527735-\$ or US-5521405-\$ or | | |
| | | US-5516716-\$ or US-5501995-\$ or | ļ | |
| | | US-5445711-\$ or US-5441909-\$ or | | |
| | ļ | US-5422307-\$ or US-5005102-\$ or | | |
| | | US-4914046-\$ or US-4771211-\$ or | | |
| | | US-4714586-\$ or US-4673455-\$ or | | |
| | | US-4614575-\$ or US-6262458-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | ļ | US-6284654-\$ or US-5873977-\$ or | | |
| ĺ | | US-5790366-\$ or US-5739587-\$ or | | |
| l | - | US-5527567-\$ or US-5478610-\$).did. or | | |
| | - | (US-4816424-\$ or US-6323512-\$ or | | |
| | | • | | |
| | | US-6313539-\$ or US-6277513-\$ or | | |
| | | US-5964794-\$ or US-5872419-\$ or | | |
| | | US-5807774-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5612560-\$ or US-5587623-\$ or | | |
| | | US-5491102-\$ or US-5229313-\$ or | | |
| | | US-5111267-\$ or US-4824796-\$ or | | |
| | | US-4451841-\$ r US-4251820-\$ or | | |
| | | US-4167607-\$).did. r (US-20020050644-\$ or | | |
| | | US-20020030222-\$ r US-20020017673-\$ r | | |
| | | US-20020038880-\$ r US-20020047148-\$ or | | |
| | | US-20010010965-\$ r US-20020063271-\$ r | | |
| | | US-20020045066-\$ r US-20020027240-\$ r | | |
| arch History 7 | /8/02 | 148380989AN324Zg& 97 | | |
| | | 1169909200944945.\$)spid. r (WO-9634407-\$ or | | |

| _ | 15 | ((US-6348735-\$ r US-6211005-\$ r | USPAT; | 2002/07/01 |
|-----------|-------------|---|-----------|------------|
| | | US-6066891-\$ or US-6051486-\$ r | US-PGPUB: | 14:48 |
| | | US-6037663-\$ or US-5973408-\$ r | EPO; JPO; | |
| | | US-5703403-\$ r US-5619393-\$ r | DERWENT; | : |
| | | US-5581436-\$ or US-5576928-\$ r | IBM TDB | |
| | 1 | US-5568422-\$ or US-5566045-\$ or | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-5406447-\$ or US-5382817-\$ or | | • |
| | | US-5336922-\$ or US-3773554-\$ or | | |
| | | US-6399982-\$ or US-6238994-\$ or | | |
| | | US-6188097-\$ or US-6396097-\$ or | | |
| | | US-6346746-\$ or US-6331356-\$ or | | |
| | | US-6326936-\$ or US-6316831-\$).did. or | | |
| | | (US-6274899-\$ or US-6218258-\$ or | | |
| | | US-6218256-\$ or US-6188137-\$ or | | |
| | | US-6130124-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6051778-\$ or | | |
| | | US-6050827-\$ or US-6037005-\$ or | | |
| | | US-6016033-\$ or US-6010918-\$ or | | |
| | | US-5998225-\$ or US-5940698-\$ or | | |
| | | US-5930621-\$ or US-5917208-\$ or | | |
| | | US-5885877-\$ or US-5851896-\$ or | | |
| | | US-5849605-\$ or US-5804845-\$ or | | |
| | | US-5798542-\$ or US-5744832-\$ or | | |
| | | | | |
| | | US-5739798-\$ or US-5708302-\$ or | | |
| | | US-5693560-\$ or US-5688726-\$ or | | |
| | | US-5668410-\$).did. or (US-5668040-\$ or | | |
| | | US-5660177-\$ or US-5596431-\$ or | | |
| | - | US-5559399-\$ or US-5555486-\$ or | | |
| | | US-5527735-\$ or US-5521405-\$ or | | |
| | | US-5516716-\$ or US-5501995-\$ or | | |
| | | US-5445711-\$ or US-5441909-\$ or | | |
| | | US-5422307-\$ or US-5005102-\$ or | | |
| | | US-4914046-\$ or US-4771211-\$ or | | |
| | | US-4714586-\$ or US-4673455-\$ or | | |
| | | US-4614575-\$ or US-6262458-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6284654-\$ or US-5873977-\$ or | | |
| | | US-5790366-\$ or US-5739587-\$ or | | |
| | | US-5527567-\$ or US-5478610-\$).did. or | | |
| | | (US-4816424-\$ or US-6323512-\$ or | | |
| | | US-6313539-\$ or US-6277513-\$ or | | |
| | | US-5964794-\$ or US-5872419-\$ or | | |
| | | US-5807774-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5612560-\$ or US-5587623-\$ or | | |
| | | US-5491102-\$ or US-5229313-\$ or | | |
| | | US-5111267-\$ or US-4824796-\$ or | | |
| | | US-4451841-\$ r US-4251820-\$ r | | |
| | | US-4167607-\$).did. r (US-20020050644-\$ r | | |
| | | US-20020030222-\$ or US-20020017673-\$ r | | |
| | | US-20020038880-\$ or US-20020047148-\$ r | | |
| | | US-20010010965-\$ r US-20020063271-\$ r | | |
| | | US-20020045066-\$ r US-20020027240-\$ r | | |
| earch His | t ry 7/8/02 | 148380389003243g& & | | |
| | | e U69322007<u>4945</u>.\$)spid. r (WO-9634407-\$ or | | |
| | Inspac | US-5521405-\$ r FR-2620270-\$).did. r | | |

| • | 15 | ((US-6348735-\$ r US-6211005-\$ r | USPAT; | 2002/07/01 |
|-----------|-----------|--|-----------|------------|
| | | US-6066891-\$ r US-6051486-\$ or | US-PGPUB; | 14:56 |
| | | US-6037663-\$ r US-5973408-\$ r | EPO; JPO; | ļ |
| | | US-5703403-\$ r US-5619393-\$ r | DERWENT; | |
| | | US-5581436-\$ r US-5576928-\$ r | IBM_TDB | |
| | | US-5568422-\$ r US-5566045-\$ r | _ | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-5406447-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-3773554-\$ or | | |
| | | US-6399982-\$ or US-6238994-\$ or | | |
| | | US-6188097-\$ or US-6396097-\$ or | | |
| | | US-6346746-\$ or US-6331356-\$ or | | |
| | | US-6326936-\$ or US-6316831-\$).did. or | | |
| | | (US-6274899-\$ or US-6218258-\$ or | | |
| | | US-6218256-\$ or US-6188137-\$ or | | |
| | | US-6130124-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6051778-\$ or | | |
| | | US-6050827-\$ or US-6037005-\$ or | | |
| | | US-6016033-\$ or US-6010918-\$ or | | |
| | | US-5998225-\$ or US-5940698-\$ or | | |
| | | US-5930621-\$ or US-5917208-\$ or | | |
| | | US-5885877-\$ or US-5851896-\$ or | | |
| | | US-5849605-\$ or US-5804845-\$ or | | |
| | | US-5798542-\$ or US-5744832-\$ or | | |
| | | | | |
| | | US-5739798-\$ or US-5708302-\$ or | | |
| | | US-5693560-\$ or US-5688726-\$ or | | |
| | | US-5668410-\$).did. or (US-5668040-\$ or | | |
| | | US-5660177-\$ or US-5596431-\$ or | | |
| | | US-5559399-\$ or US-5555486-\$ or | | |
| | | US-5527735-\$ or US-5521405-\$ or | | |
| | | US-5516716-\$ or US-5501995-\$ or | | |
| | | US-5445711-\$ or US-5441909-\$ or | | |
| | | US-5422307-\$ or US-5005102-\$ or | | |
| | | US-4914046-\$ or US-4771211-\$ or | | |
| | | US-4714586-\$ or US-4673455-\$ or | | |
| | | US-4614575-\$ or US-6262458-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6284654-\$ or US-5873977-\$ or | | |
| | | US-5790366-\$ or US-5739587-\$ or | | |
| | | US-5527567-\$ or US-5478610-\$).did. or | | |
| | | (US-4816424-\$ or US-6323512-\$ or | | |
| | | US-6313539-\$ or US-6277513-\$ or | | |
| | | US-5964794-\$ or US-5872419-\$ or | | |
| | | US-5807774-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5612560-\$ or US-5587623-\$ or | | |
| | | US-5491102-\$ or US-5229313-\$ or | | |
| | | US-5111267-\$ or US-4824796-\$ or | | |
| | | US-4451841-\$ r US-4251820-\$ or | | |
| | | US-4167607-\$).did. r (US-20020050644-\$ or | | |
| | | US-20020030222-\$ r US-20020017673-\$ r | | |
| | | US-20020038880-\$ r US-20020047148-\$ r | | |
| | | US-20010010965-\$ r US-20020063271-\$ r | | |
| | | US-20020045066-\$ or US-20020027240-\$ r | | |
| arch Hist | ry 7/8/02 | 1483800890A324396 @ | | |
| | | ekl6989290044045-\$)spid. r (WO-9634407-\$ r | | |

| | 3 | ((US-6348735-\$ r US-6211005-\$ r | USPAT; | 2002/07/01 |
|------------|-----------|--|-----------|------------|
| | | US-6066891-\$ r US-6051486-\$ r | US-PGPUB; | 14:56 |
| | | US-6037663-\$ r US-5973408-\$ r | EP ; JP ; | |
| | | US-5703403-\$ r US-5619393-\$ r | DERWENT; | |
| | | US-5581436-\$ or US-5576928-\$ r | IBM_TDB | |
| | | US-5568422-\$ r US-5566045-\$ r | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-5406447-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-3773554-\$ or | | |
| | | US-6399982-\$ or US-6238994-\$ or | | |
| * | | US-6188097-\$ or US-6396097-\$ or | | |
| | • | US-6346746-\$ or US-6331356-\$ or | | |
| | | US-6326936-\$ or US-6316831-\$).did. or | | |
| | | (US-6274899-\$ or US-6218258-\$ or | | |
| | | US-6218256-\$ or US-6188137-\$ or | | |
| | | US-6130124-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6051778-\$ or | | |
| | | US-6050827-\$ or US-6037005-\$ or | | |
| | j | US-6016033-\$ or US-6010918-\$ or | | |
| | į | US-5998225-\$ or US-5940698-\$ or | | |
| İ | | US-5930621-\$ or US-5917208-\$ or | | |
| | | US-5885877-\$ or US-5851896-\$ or | | |
| | | US-5849605-\$ or US-5804845-\$ or | | |
| | | US-5798542-\$ or US-5744832-\$ or | | |
| | | US-5739798-\$ or US-5708302-\$ or | | |
| | | US-5693560-\$ or US-5688726-\$ or | | |
| - | | US-5668410-\$).did. or (US-5668040-\$ or | | |
| | | US-5660177-\$ or US-5596431-\$ or | | |
| | | US-5559399-\$ or US-5555486-\$ or | | |
| | | US-5527735-\$ or US-5521405-\$ or | | |
| | | US-5516716-\$ or US-5501995-\$ or | | |
| | | US-5445711-\$ or US-5441909-\$ or | | |
| | | US-5422307-\$ or US-5005102-\$ or | | |
| i | | · · · · · · · · · · · · · · · · · · · | | |
| | | US-4914046-\$ or US-4771211-\$ or | | |
| | | US-4714586-\$ or US-4673455-\$ or | | |
| | | US-4614575-\$ or US-6262458-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6284654-\$ or US-5873977-\$ or | | |
| | | US-5790366-\$ or US-5739587-\$ or | | |
| | | US-5527567-\$ or US-5478610-\$).did. or | | |
| | | (US-4816424-\$ or US-6323512-\$ or | | |
| | | US-6313539-\$ or US-6277513-\$ or | | |
| | | US-5964794-\$ or US-5872419-\$ or | | |
| | | US-5807774-\$ or US-5789320-\$ or | | |
| | Ī | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5612560-\$ or US-5587623-\$ or | | |
| | | US-5491102-\$ or US-5229313-\$ or | | |
| | | US-5111267-\$ or US-4824796-\$ or | | |
| | | US-4451841-\$ r US-4251820-\$ r | | |
| | | US-4167607-\$).did. r (US-20020050644-\$ r | | |
| | | US-20020030222-\$ r US-20020017673-\$ r | | |
| | | US-20020038880-\$ r US-20020047148-\$ r | | |
| | | US-20010010965-\$ r US-20020063271-\$ or | | |
| | | US-20020045066-\$ r US-20020027240-\$ r | | |
| | n. 7/8/02 | 14838008 90M 3247g& 410 | | |
| earch Hist | IV HONE | | | |

| • | 3 | (((US-6348735-\$ r US-6211005-\$ r | USPAT; | 2002/07/01 |
|------------|-------------|--|-----------|------------|
| | 1 | US-6066891-\$ r US-6051486-\$ r | US-PGPUB; | 14:57 |
| | | US-6037663-\$ r US-5973408-\$ r | EPO; JPO; | |
| | | US-5703403-\$ r US-5619393-\$ or | DERWENT; | |
| | | US-5581436-\$ r US-5576928-\$ or | IBM_TDB | |
| | | US-5568422-\$ or US-5566045-\$ r | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-5406447-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-3773554-\$ or | | |
| | | US-6399982-\$ or US-6238994-\$ or | | |
| | | US-6188097-\$ or US-6396097-\$ or | | |
| | | US-6346746-\$ or US-6331356-\$ or | | |
| | - | US-6326936-\$ or US-6316831-\$).did. or | | |
| | | (US-6274899-\$ or US-6218258-\$ or | | |
| | | US-6218256-\$ or US-6188137-\$ or | | |
| | | US-6130124-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6051778-\$ or | | |
| | | US-6050827-\$ or US-6037005-\$ or | | |
| | | US-6016033-\$ or US-6010918-\$ or | | |
| | 1 | US-5998225-\$ or US-5940698-\$ or | 1 | |
| | | US-5930621-\$ or US-5917208-\$ or | | |
| | | US-5885877-\$ or US-5851896-\$ or | | |
| | | US-5849605-\$ or US-5804845-\$ or | | |
| | | US-5798542-\$ or US-5744832-\$ or | | |
| | j | US-5739798-\$ or US-5708302-\$ or | | |
| | | 1 | | |
| | | US-5693560-\$ or US-5688726-\$ or | | |
| | | US-5668410-\$).did. or (US-5668040-\$ or | | |
| | | US-5660177-\$ or US-5596431-\$ or | | |
| | | US-5559399-\$ or US-5555486-\$ or | | |
| | | US-5527735-\$ or US-5521405-\$ or | | |
| | | US-5516716-\$ or US-5501995-\$ or | | |
| | | US-5445711-\$ or US-5441909-\$ or | | |
| | | US-5422307-\$ or US-5005102-\$ or | | |
| | | US-4914046-\$ or US-4771211-\$ or | | |
| | | US-4714586-\$ or US-4673455-\$ or | | |
| | | US-4614575-\$ or US-6262458-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6284654-\$ or US-5873977-\$ or | | |
| | | US-5790366-\$ or US-5739587-\$ or | | |
| | | US-5527567-\$ or US-5478610-\$).did. or | | |
| | | (US-4816424-\$ or US-6323512-\$ or | | |
| | | US-6313539-\$ or US-6277513-\$ or | | |
| | | US-5964794-\$ or US-5872419-\$ or | | |
| | | US-5807774-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5612560-\$ or US-5587623-\$ or | | |
| | | US-5491102-\$ or US-5229313-\$ or | | |
| | | US-5111267-\$ or US-4824796-\$ or | | |
| | | US-4451841-\$ or US-4251820-\$ r | | |
| | | US-4167607-\$).did. r (US-20020050644-\$ r | | |
| | | US-20020030222-\$ r US-20020017673-\$ r | | |
| | | US-20020038880-\$ r US-20020047148-\$ r | | |
| | | US-20010010965-\$ r US-20020063271-\$ r | | |
| | | US-20020045066-\$ r US-20020027240-\$ or | | |
| | 7/0/00 | | | |
| | 1 - | 44938008 900 3247 95 97 | | |
| /:WPP3\ a: | priw rkspac | <u> </u> | l | |

| | | | T | 0000107/04 |
|-----|------|---|-----------|------------|
| - | 22 | " I ctr d structure" and "int rface | USPAT; | 2002/07/01 |
| | | r sistance" | US-PGPUB; | 15:01 |
| 1 | | | EPO; JP ; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 2219 | lectr de and (interface near5 resistanc) | USPAT; | 2002/07/01 |
| | | , , | US-PGPUB; | 15:02 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| | 838 | | USPAT; | 2002/07/01 |
| • | 030 | electrode and (interface near resistance) | 1 | |
| | | | US-PGPUB; | 15:02 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 246 | (electrode and (interface near resistance)) | USPAT; | 2002/07/01 |
| | | and barrier | US-PGPUB; | 15:03 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| _ | 0 | "interface resistance" and electrode.ti,clms | USPAT; | 2002/07/01 |
| _ | _ | interface resistance and electrodethyonis | US-PGPUB; | 15:03 |
| | | | 1 | 13.03 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 42 | "interface resistance" and electrode.ti,clms. | USPAT; | 2002/07/01 |
| | | | US-PGPUB; | 15:05 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 56 | ((multi-layer or multilayer or "multi layer" or | USPAT; | 2002/07/01 |
| | | multi-layered or multilayered or "multi | US-PGPUB; | 15:14 |
| | | layered") near5 electrode) and (interface | EPO; JPO; | |
| | | near10 resistance) and barrier | DERWENT; | |
| | | incar to resistance, and barrier | | |
| | | 5704035 HDDN | USPAT | 2002/07/01 |
| - | 4 | 5701035.URPN. | USPAI | |
| | _ | 0000004 HDDN | | 15:12 |
| - | 0 | 6222204.URPN. | USPAT | 2002/07/01 |
| | | | | 15:12 |
| - | 0 | 6222204.URPN. | USPAT | 2002/07/01 |
| | | | | 15:12 |
| - | 7 | ("5422500" "5432808" "5583676" | USPAT | 2002/07/01 |
| | | "5602418" "5650641" "5701035" | | 15:12 |
| | | "5804834").PN. | | |
| - | 5 | ("5422500" "5432808" "5583676" | USPAT | 2002/07/01 |
| | | "5650641" "5804834").PN. | | 15:13 |
| l _ | 0 | 5966629.URPN. | USPAT | 2002/07/01 |
| - | | JJUULJIUNF III | 30. 4. | 15:13 |
| | | // | LICOAT | 2002/07/01 |
| - | 261 | ((multi-lay r or multilayer r "multi layer" r | USPAT; | |
| | | multi-lay red or multilayered r "multi | US-PGPUB; | 15:16 |
| | | lay r d") near5 "el ctr de structure") | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

| - (((multi-lay r rmultilayer r"multi lay r" or multi-lay r d r multilay r d r multi lay red") near5 " lectrod structure")) and (titanium or Ti) - 209 ("p lysilicon film" or "p lysilicon layer") and ("metal film" or "metal layer") and interface and resistance and "melting point" - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) and "melting point" - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) - 0 ((("polysilicon film" or "polysilicon layer") uspat; lbm_tdb layer") perwent; lbm_tdb layer") lbm_tdb layer") - 0 ((("polysilicon film" or "polysilicon layer") uspat; lbm_tdb layer") and ("metal film" or "metal layer")) and ("specificance and resistance)) - 0 ((("polysilicon film" or "polysilicon layer") uspat; lbm_tdb layer") lbm_tdb layer") lbm_tdb layer | 01 |
|--|------------|
| layered") near5 " lectrod structure")) and (titanium or Ti) - 209 ("p lysilicon film" or "p lysilicon layer") and ("metal film" or "metal layer") and interface and resistance and "melting point" - 0 ((("polysilicon film" or "polysilicon layer") | 01 |
| (titanium or Ti) DERWENT; IBM_TDB USPAT; 2002/07/6 ("metal film" or "metal layer") and interface and resistance and "melting point" O ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) and "melting point" USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; USPAT; US-PGPUB; 15:33 (interface and resistance)) O ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) O ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | 01 |
| - 209 ("p lysilicon film" or "p lysilicon layer") and ("metal film" or "metal layer") and interface and resistance and "melting point" - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) and "melting point" - 0 ((("polysilicon film" or "polysilicon layer") | 01 |
| - 209 ("p lysilicon film" or "p lysilicon layer") and ("metal film" or "metal layer") and interface and resistance and "melting point" - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) and "melting point" - 0 ((("polysilicon film" or "polysilicon layer") DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; USPAT; USPAT; USPAT; IBM_TDB USPAT; IBM_TDB USPAT; ISPAT; IS | 01 |
| ("metal film" or "metal layer") and interface and resistance and "melting point" O ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) and "melting point" O ((("polysilicon film" or "polysilicon layer") DERWENT; IBM_TDB O ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) O ((("polysilicon film" or "polysilicon layer") EPO; JPO; DERWENT; IBM_TDB O ((("polysilicon film" or "polysilicon layer") US-PGPUB; EPO; JPO; DERWENT; IBM_TDB O ((("polysilicon film" or "polysilicon layer") and US-PGPUB; 15:33 | 01 |
| and resistance and "melting point" EPO; JPO; DERWENT; IBM_TDB | |
| - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) and "melting point" - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 ("metal film" or "metal layer")) near10 ("metal film" or "metal layer")) near10 ("polysilicon film" or "polysilicon layer") - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | |
| - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) and "melting point" | |
| - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (IS-PGPUB; and ("metal film" or "metal layer")) near10 (IS-PGPUB; point" DERWENT; IBM_TDB (("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (INS-PGPUB; and ("metal film" or "metal layer")) near10 (INS-PGPUB; and ("metal film" or "polysilicon layer") DERWENT; IBM_TDB (INS-PGPUB; and ("metal film" or "polysilicon layer") and US-PGPUB; 15:33 | |
| and ("metal film" or "metal layer")) near10 (interface and resistance)) and "melting point" DERWENT; IBM_TDB US-PGPUB; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; 15:33 US-PGPUB; 15:33 US-PGPUB; 15:33 US-PGPUB; 15:33 EPO; JPO; DERWENT; IBM_TDB US-PGPUB; 15:33 EPO; JPO; DERWENT; IBM_TDB US-PGPUB; 15:33 O ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | |
| and ("metal film" or "metal layer")) near10 (interface and resistance)) and "melting point" DERWENT; IBM_TDB ((("polysilicon film" or "polysilicon layer") uspat; uspat; layer")) near10 (interface and resistance)) Composition film" or "metal layer")) near10 (interface and resistance)) Composition film" or "polysilicon layer") DERWENT; IBM_TDB DERWENT; IBM_TDB USPAT; uspat; uspat; and ("metal film" or "metal layer")) and uspat; | D1 |
| (interface and resistance)) and "melting point" O ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (interface and resistance)) C ((("polysilicon film" or "polysilicon layer") | D1 |
| point" O ((("polysilicon film" or "polysilicon layer") USPAT; 2002/07/0 and ("metal film" or "metal layer")) near10 US-PGPUB; 15:33 (interface and resistance)) C ((("polysilicon film" or "polysilicon layer") USPAT; 2002/07/0 USPAT; and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | D 1 |
| - 0 ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) near10 (IS-PGPUB; 15:33 (interface and resistance)) EPO; JPO; DERWENT; IBM_TDB ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | D1 |
| - 0 ((("polysilicon film" or "polysilicon layer") uSPAT; 2002/07/0 and ("metal film" or "metal layer")) near10 uS-PGPUB; 15:33 EPO; JPO; DERWENT; IBM_TDB uSPAT; 2002/07/0 and ("metal film" or "polysilicon layer") uSPAT; 2002/07/0 and uS-PGPUB; 15:33 | 01 |
| and ("metal film" or "metal layer")) near10 (interface and resistance)) DERWENT; IBM_TDB ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | |
| (interface and resistance)) EPO; JPO; DERWENT; IBM_TDB ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | |
| DERWENT; IBM_TDB ((("polysilicon film" or "polysilicon layer") and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | |
| - 0 ((("polysilicon film" or "polysilicon layer") USPAT; 2002/07/0 and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | |
| - 0 ((("polysilicon film" or "polysilicon layer") USPAT; 2002/07/0 and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | |
| and ("metal film" or "metal layer")) and US-PGPUB; 15:33 | 0.4 |
| | JΊ |
| | |
| ("interface and resistance")) EPO; JPO; | |
| DERWENT; | |
| IBM_TDB | |
| - 21 ((("polysilicon film" or "polysilicon layer") USPAT; 2002/07/0 | 01 |
| and ("metal film" or "metal layer")) and US-PGPUB; 15:38 | |
| ("interface resistance")) EPO; JPO; | |
| DERWENT; | |
| IBM_TDB | |
| - 0 6297517.URPN. USPAT 2002/07/0 | 01 |
| 15:37 | |
| - 4 ("5923048" "5942766" "6054721" USPAT 2002/07/0 |) 1 |
| "6150669").PN. 15:37 | |
| - 0 6291340.URPN. USPAT 2002/07/0 | 01 |
| 15:37 | |
| - 22 ("3637320" "3807008" "4035541" USPAT 2002/07/0 |) 1 |
| "4497874" "4830886" "4960732" 15:37 | |
| "4990997" "5001531" "5049975" | İ |
| "5087593" "5132756" "5139825" | |
| "5178911" "5192589" "5246881" | |
| | |
| "5384289" "5496762" "5536947" "5574573" "5723282" "5802758" | |
| "5571572" "5723382" "5893758" | |
| "6081034").PN. | |
| - 2922 ((("polysilicon film" or "polysilicon layer") USPAT; 2002/07/0 | J1 |
| and ("metal film" or "metal layer")) and US-PGPUB; 15:40 | |
| resistance and electrode) EPO; JPO; | |
| DERWENT; | |
| IBM_TDB | |
| - 276 (((("polysilic n film" r "p lysilic n layer") USPAT; 2002/07/0 |)1 |
| and ("metal film" or "metal lay r")) and US-PGPUB; 15:42 | |
| r sistanc and electrode)) and structure and EPO; JPO; | - |
| " I ctr d structure" DERWENT; | 1 |
| IBM_TDB | |

| - | 98 | ((((("polysilic n film" r "polysilic n layer") | USPAT; | 2002/07/01 |
|---|------|---|-----------|------------|
| | | and ("m tal film" or "m tal lay r")) and | US-PGPUB; | 15:43 |
| | | r sistanc and electr d)) and structur and | EPO; JP ; | |
| | | " I ctrod stru tur ") and ((I w r r | DERWENT; | |
| | | I wering or lowered) near10 resistance) | IBM_TDB | |
| - | 92 | ((((("p lysilic n film" r "p lysilic n layer") | USPAT; | 2002/07/01 |
| | | and ("metal film" or "metal layer")) and | US-PGPUB; | 15:45 |
| | | resistance and electrode)) and structure and | EPO; JPO; | |
| | | "electrode structure") and ((lower or | DERWENT; | |
| | | lowering or lowered) near5 resistance) | IBM_TDB | |
| • | 43 | (((((("polysilicon film" or "polysilicon layer") | USPAT; | 2002/07/01 |
| | | and ("metal film" or "metal layer")) and | US-PGPUB; | 15:45 |
| | | resistance and electrode)) and structure and | EPO; JPO; | |
| | | "electrode structure") and ((lower or | DERWENT; | |
| | | lowering or lowered) near5 resistance)) and interface | IBM_TDB | |
| _ | 6 | ((((((("polysilicon film" or "polysilicon layer") | USPAT; | 2002/07/01 |
| - | | and ("metal film" or "metal layer")) and | US-PGPUB; | 15:46 |
| | | resistance and electrode)) and structure and | EPO; JPO; | 10.40 |
| | | "electrode structure") and ((lower or | DERWENT; | |
| | | lowering or lowered) near5 resistance)) and | IBM_TDB | |
| | | interface) and (interface near5 resistance) | 10111_100 | |
| _ | 22 | "interface resistance" and "electrode | USPAT; | 2002/07/01 |
| | | structure" | US-PGPUB; | 15:48 |
| | | 311401410 | EPO; JPO; | 10110 |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| _ | 4502 | "electrode structure".ti,clms. | USPAT; | 2002/07/01 |
| | | , | US-PGPUB; | 15:51 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 21 | "electrode structure".ti,clms. and ("titanium | USPAT; | 2002/07/01 |
| | | nitride" or TiN).ti,clms. | US-PGPUB; | 15:51 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 487 | "electrode structure".ti,clms. | USPAT; | 2002/07/01 |
| | | | US-PGPUB | 15:51 |
| - | 94 | "electrode structure".ti,clms. and ("titanium | USPAT; | 2002/07/01 |
| | 1 | nitride" or TiN) | US-PGPUB | 15:52 |
| • | 62 | ("electrode structure".ti,clms. and | USPAT; | 2002/07/01 |
| | | ("titanium nitride" or TiN)) and resistance | US-PGPUB | 15:52 |
| • | 33 | (("electrode structure".ti,clms. and | USPAT; | 2002/07/02 |
| | | ("titanium nitride" or TiN)) and resistance) | US-PGPUB | 14:24 |
| | | and barrier | | |
| • | 1125 | "electrode structure" near10 comprising | USPAT; | 2002/07/02 |
| | | | US-PGPUB | 14:25 |
| • | 526 | " lectr d structure" n ar c mprising | USPAT; | 2002/07/02 |
| | | | US-PGPUB | 14:26 |
| • | 109 | ("electr de structure" n ar comprising) and | USPAT; | 2002/07/02 |
| | 4.0 | barri r | US-PGPUB | 14:26 |
| • | 48 | (("electr de structur " n ar c mprising) and | USPAT; | 2002/07/02 |
| | | barri r) and ("titanium nitrid " r TiN) | US-P PUB | 14:27 |

| [_ | 14 | ((("electr de structure" n ar c mprising) | USPAT; | 2002/07/02 |
|----|------|--|------------|------------|
| _ | 1-7 | and barri r) and ("titanium nitride" r TiN)) | US-PGPUB | 14:28 |
| | | and "electr de structure".ti,clms. | 00-10102 | 14.20 |
| _ | 487 | " I ctr de structure".ti,clms. | USPAT; | 2002/07/02 |
| _ | 10. | Total de Structure itijoniisi | US-PGPUB | 14:28 |
| _ | 77 | " I ctr de structure".ti,clms. and | USPAT: | 2002/07/02 |
| _ | | ("electrode structure" adj comprising) | US-PGPUB | 14:29 |
| _ | 21 | (("electrode structure".ti,clms. and | USPAT; | 2002/07/02 |
| • | | ("electrode structure" adj comprising)) and | US-PGPUB | 14:30 |
| | | (film or layer)) and silicon | 03-7-67-02 | 14.50 |
| _ | 69 | ("electrode structure".ti,clms. and | USPAT; | 2002/07/02 |
| • | 09 | ("electrode structure" adj comprising)) and | US-PGPUB | 14:33 |
| | | 1 . | U3-FGFUB | 14.55 |
| | 60 | (film or layer) | HCDAT. | 2002/07/02 |
| • | 69 | ("multi-layer" or "multi-layered" or | USPAT; | 14:37 |
| | | "multilayer" or "multilayered") adj | US-PGPUB | 14:37 |
| | | "electrode structure" | HEDET | 2002/07/22 |
| • | 90 | ("barrier metal layer" or "metal barrier | USPAT; | 2002/07/02 |
| | | layer") and ("titanium nitride" or TiN) and | US-PGPUB | 14:41 |
| | | ("insulating film" or "insulating layer") and | | |
| | | ("polysilicon layer") | | |
| | | and "silicon substrate" and electrode | | |
| - | 0 | (("barrier metal layer" or "metal barrier | USPAT; | 2002/07/02 |
| | | layer") and ("titanium nitride" or TiN) and | US-PGPUB | 14:41 |
| | | ("insulating film" or "insulating layer") and | | |
| | | ("polysilicon layer" or "polysilicon layer") | | |
| | | and "silicon substrate" and electrode) and | | |
| | | "interface resistance" | | |
| - | 67 | (("barrier metal layer" or "metal barrier | USPAT; | 2002/07/02 |
| | | layer") and ("titanium nitride" or TiN) and | US-PGPUB | 14:42 |
| | | ("insulating film" or "insulating layer") and | | |
| | | ("polysilicon layer" or "polysilicon layer") | | |
| | | and "silicon substrate" and electrode) and | | |
| | | resistance | | |
| - | 32 | ((("barrier metal layer" or "metal barrier | USPAT; | 2002/07/02 |
| | | layer") and ("titanium nitride" or TiN) and | US-PGPUB | 14:42 |
| | | ("insulating film" or "insulating layer") and | | |
| | | ("polysilicon layer" or "polysilicon layer") | | |
| | | and "silicon substrate" and electrode) and | | |
| | | resistance) and interface | | |
| - | 5 | (((("barrier metal layer" or "metal barrier | USPAT; | 2002/07/02 |
| | | layer") and ("titanium nitride" or TiN) and | US-PGPUB | 14:48 |
| | | ("insulating film" or "insulating layer") and | | |
| | | ("polysilicon layer" or "polysilicon layer") | | |
| | | and "silicon substrate" and electrode) and | | |
| | | resistance) and interface) and (interface | | |
| | 1 | near10 resistance) | | |
| - | 6363 | resistance near10 interface | USPAT; | 2002/07/02 |
| | | | US-PGPUB | 14:48 |
| - | 76 | (resistanc n ar10 interface) and | USPAT; | 2002/07/02 |
| | | ((p lysilic n or silic n) n ar (lay r r film)) | US-P PUB | 14:53 |
| | | n ar (m tal near (layer r film)) | | |

| | 53 | ((r sistance near10 int rfac) and | USPAT; | 2002/07/02 |
|---|-----|--|--------------------|------------|
| | | ((p lysilic n r silic n) near (layer r film)) | US-P PUB | 14:55 |
| | | near (metal near (lay r r film))) and | | |
| | | electr de | | |
| _ | 31 | (((resistance near10 interfac) and | USPAT; | 2002/07/02 |
| | | ((p lysilic n or silic n) n ar (layer r film)) | US-PGPUB | 14:56 |
| | | near (metal near (layer or film))) and | 00.0.00 | |
| | | electrode) and (resistance near10 (lower or | | |
| | | lowering or lowered)) | | |
| _ | 48 | (((resistance near10 interface) and | USPAT; | 2002/07/02 |
| _ | 40 | ((polysilicon or silicon) near (layer or film)) | US-PGPUB | 14:56 |
| | | near (metal near (layer or film))) and | 00-7 07 02 | 14.50 |
| | | electrode) and (resistance near10 (lower or | | |
| | | lowering or lowered or reduced or reduce or | | |
| | | reducing or decrease or decreased or | | |
| | | decreaseing)) | | |
| | 48 | (((resistance near10 interface) and | USPAT; | 2002/07/02 |
| • | 40 | (((resistance near 10 interrace) and ((polysilicon or silicon) near (layer or film)) | US-PGPUB | 14:57 |
| | | near (metal near (layer or film))) and | JOFGFUB | 17.57 |
| | | , | | ! |
| | | electrode) and (resistance near5 (lower or lowering or lowered or reduced or reduce or | | |
| | | _ | | |
| | | reducing or decrease or decreased or | | |
| | 40 | decreaseing)) | HCDAT. | 2002/07/02 |
| - | 10 | (((resistance near10 interface) and | USPAT; US-PGPUB | 15:01 |
| | | ((polysilicon or silicon) near (layer or film)) | US-PGPUB | 15:01 |
| | | near (metal near (layer or film))) and | | |
| | | electrode) and (resistance near5 interface | | |
| | | near5 (lower or lowering or lowered or | | |
| | | reduced or reduce or reducing or decrease | | |
| | | or decreased or decreaseing)) | HCDAT. | 2002/07/02 |
| • | 772 | (resistance near5 interface near5 (lower or | USPAT; | 1 |
| | } | lowering or lowered or reduced or reduce or | US-PGPUB | 15:02 |
| | | reducing or decrease or decreased or | | |
| | | decreaseing)) | | 2000/07/00 |
| • | 205 | ((resistance near5 interface near5 (lower or | USPAT; | 2002/07/02 |
| | | lowering or lowered or reduced or reduce or | US-PGPUB | 15:03 |
| | | reducing or decrease or decreased or | | |
| | | decreaseing))) and ("titanium nitride" or TiN) | | 0000/07/05 |
| • | 82 | (((resistance near5 interface near5 (lower or | USPAT; | 2002/07/02 |
| | | lowering or lowered or reduced or reduce or | US-PGPUB | 15:23 |
| | | reducing or decrease or decreased or | | |
| | | decreaseing))) and ("titanium nitride" or | | |
| | | TiN)) and (barrier near (metal or layer or | | |
| | | film)) | | |
| - | 9 | ((((resistance near5 interface near5 (lower | USPAT; | 2002/07/02 |
| | | or lowering or lowered or reduced or reduce | US-PGPUB | 15:26 |
| | | or reducing or decrease or decreased or | | |
| | | decreaseing))) and ("titanium nitride" or | | |
| | | TiN)) and (barrier n ar (m tal r lay r r | | |
| | | film))) and ((nitrid r titanium r nitr g n) | | |
| | | near5 rati) | | |
| - | 528 | ((nitrid r titanium r nitrog n) n ar5 rati) | USPAT; | 2002/07/02 |
| | | and (lectr de or c ntact) and barri r and | US-P PUB | 15:28 |
| | | metal and (layer r film) and insulating | | |

| | 303 | (((nitrid r titanium r nitrogen) n ar5 ratio) | USPAT; | 2002/07/02 |
|------------|-----|---|------------|------------|
| _ | | and (el ctr d r contact) and barrier and | US-PGPUB | 15:32 |
| | | metal and (layer or film) and insulating) and | | |
| | | ("barri r layer" r "barri r film" r "barrier | | |
| | | metal lay r" or "metal barrier lay r" r | | |
| : | | "barrier m tal film" r "metal barri r film") | | |
| l <u>.</u> | 200 | ((((nitride or titanium or nitrogen) near5 | USPAT; | 2002/07/02 |
| | | ratio) and (electrode or contact) and barrier | US-PGPUB | 15:32 |
| | | and metal and (layer or film) and insulating) | 00.0.02 | |
| | | and ("barrier layer" or "barrier film" or | | |
| | | "barrier metal layer" or "metal barrier layer" | | |
| | | or "barrier metal film" or "metal barrier | | |
| | | film")) and ("titanium nitride" or "TiN") | | |
| l <u>-</u> | 42 | (((((nitride or titanium or nitrogen) near5 | USPAT; | 2002/07/02 |
| | 72 | ratio) and (electrode or contact) and barrier | US-PGPUB | 15:33 |
| | | and metal and (layer or film) and insulating) | JU-1 OI-OB | 10.00 |
| | | and ("barrier layer" or "barrier film" or | | |
| | | "barrier metal layer" or "metal barrier layer" | | |
| | | or "barrier metal film" or "metal barrier | | |
| | | film")) and ("titanium nitride" or "TiN")) and | | |
| | | (("barrier layer" or "barrier film" or "barrier | | |
| | | metal layer" or "metal barrier layer" or | | |
| | | "barrier metal film" or "metal barrier film") | | |
| | | near5 second) | | |
| _ | 23 | (((((nitride or titanium or nitrogen) near5 | USPAT; | 2002/07/02 |
| | | ratio) and (electrode or contact) and barrier | US-PGPUB | 15:36 |
| | | and metal and (layer or film) and insulating) | | |
| | | and ("barrier layer" or "barrier film" or | | |
| | | "barrier metal layer" or "metal barrier layer" | | |
| | | or "barrier metal film" or "metal barrier | | |
| | | film")) and ("titanium nitride" or "TiN")) and | | |
| | | (("barrier layer" or "barrier film" or "barrier | | |
| | | metal layer" or "metal barrier layer" or | | |
| | | "barrier metal film" or "metal barrier film") | | |
| | | near second) | | |
| | 19 | ((((((nitride or titanium or nitrogen) near5 | USPAT; | 2002/07/02 |
| | | ratio) and (electrode or contact) and barrier | US-PGPUB | 15:36 |
| | | and metal and (layer or film) and insulating) | | |
| | | and ("barrier layer" or "barrier film" or | | |
| | | "barrier metal layer" or "metal barrier layer" | | |
| | | or "barrier metal film" or "metal barrier | | |
| | | film")) and ("titanium nitride" or "TiN")) and | | |
| | | (("barrier layer" or "barrier film" or "barrier | | |
| | | metal layer" or "metal barrier layer" or | | |
| | | "barrier metal film" or "metal barrier film") | | |
| | | near second)) and resistance | | |

| | 11 | /////nitrid religion religion - c-E | USPAT: | 2002/07/02 |
|----------|-----|---|-----------|------------|
| - | 17 | (((((((nitrid r titanium r nitr gen) n ar5 | US-PGPUB | 15:38 |
| <u> </u> | | rati) and (el ctr d r contact) and barri r | US-PGPUB | 15:30 |
| | | and metal and (layer or film) and insulating) | | |
| | | and ("barrier lay r" or "barri r film" r | | |
| | | "barri r metal lay r" r "metal barri r layer" r "barri r metal film" r "m tal barrier | | |
| | | film")) and ("titanium nitride" or "TiN")) and | | |
| | | (("barrier layer" or "barrier film" or "barrier | | |
| | | metal layer" or "metal barrier layer" or | | |
| | | "barrier metal film" or "metal barrier film") | | |
| | | near second)) and resistance) and | | |
| | | (resistance near5 (lower or lowered or | | |
| | | lowering or reduce or reduced or reducing or | | |
| | | decrease or decreased or decreasing or | | |
| | | eliminate or eliminate or eliminated)) | | |
| - | 183 | (second near5 barrier) and (ratio near5 | USPAT; | 2002/07/02 |
| | | (nitrogen or nitride or titanium)) | US-PGPUB; | 15:53 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 23 | (second near barrier) and (ratio near | USPAT; | 2002/07/02 |
| | | (nitrogen or nitride or titanium)) | US-PGPUB; | 15:54 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

| 196 | (US-6284654-\$ r US-6222204-\$ or | USPAT; | 2002/07/02 |
|---------------------|--|-----------|------------|
| | US-6051778-\$ r US-5966629-\$ r | US-PGPUB; | 15:57 |
| | US-5793600-\$ r US-5701035-\$ r | EPO; | į |
| | US-5508953-\$ r US-5272376-\$ or | DERWENT | |
| | US-3767466-\$ r US-4135039-\$ or | | 4 |
| | US-6136658-\$ r US-6016033-\$ r | | |
| | US-5840609-\$ or US-5668410-\$ or | | |
| | US-5571391-\$ or US-4423087-\$ or | | |
| | US-6402579-\$ or US-6327013-\$ or | | |
| | US-6323512-\$ or US-6313539-\$ or | | |
| | US-6148221-\$ or US-5964794-\$ or | | |
| | US-5917208-\$ or US-5873977-\$ or | | |
| | US-5872419-\$ or US-5807774-\$).did. or | | |
| | (US-5790366-\$ or US-5789320-\$ or | | |
| | US-5789268-\$ or US-5742122-\$ or | | |
| | | | |
| | US-5739587-\$ or US-5612560-\$ or | | |
| | US-5587623-\$ or US-5527567-\$ or | | |
| | US-5491102-\$ or US-5478610-\$ or | | 1 |
| | US-5229313-\$ or US-5111267-\$ or | | |
| | US-5005102-\$ or US-4824796-\$ or | | |
| | US-4816424-\$ or US-4451841-\$ or | | |
| | US-4251820-\$ or US-4167607-\$ or | | |
| | US-5903053-\$ or US-6297517-\$ or | | |
| | US-6133150-\$ or US-5907188-\$ or | : | |
| | US-5668040-\$ or US-6410420-\$ or | | |
| | US-6403417-\$ or US-6384443-\$ or | | |
| | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | US-6323115-\$ or US-6320261-\$ or | | |
| | US-6316360-\$ or US-6297153-\$ or | | |
| | US-6262485-\$ or US-6284611-\$ or | | |
| | US-6236090-\$ or US-6235630-\$ or | | |
| | US-6228731-\$ or US-6222267-\$ or | | |
| | US-6215186-\$ or US-6121134-\$ or | | |
| | US-6180522-\$ or US-6054191-\$ or | | |
| | US-5986313-\$ or US-5885898-\$ or | | |
| | US-5885896-\$ or US-5747116-\$ or | | |
| | US-5714804-\$ or US-5721175-\$ or | | |
| | US-5712193-\$ or US-5696389-\$ or | | |
| | US-5705428-\$ or US-5670421-\$ or | | |
| | US-5498768-\$ or US-5316977-\$).did. or | | |
| | , | | |
| | (US-5305519-\$ or US-5138425-\$ or | | |
| | US-6348735-\$ or US-6066891-\$ or | | |
| | US-6211005-\$ or US-5406447-\$ or | | |
| | US-6051486-\$ or US-6037663-\$ or | | |
| ł | US-5973408-\$ or US-5703403-\$ or | | |
| | US-5619393-\$ or US-5581436-\$ or | | |
| | US-5576928-\$ or US-5568422-\$ or | | |
| | US-5566045-\$ or US-5420612-\$ or | | |
| | US-5411912-\$ r US-5382817-\$ r | | |
| | US-5336922-\$ r US-3773554-\$ r | | |
| | US-6399982-\$ r US-6238994-\$ r | | |
| | US-6188097-\$ or US-6396097-\$ r | | |
| | US-6346746-\$ r US-6331356-\$ r | | |
| | US-6326936-\$).did. r (US-6316831-\$ r | | |
| arch History 7/8/01 | 14830276999-\$ PEGUS-18258-\$ r | | |
| | е Ы6992189256_басеЫ% 6188137-\$ r | | |
| again inspar | US-6130124-\$ r US-6114198-\$ or | | |

| • | 7 | ((US-6284654-\$ r US-6222204-\$ or | USPAT; | 2002/07/02 |
|----------|-------------|---|-----------|------------|
| | | US-6051778-\$ or US-5966629-\$ r | US-P PUB; | 16:01 |
| | | US-5793600-\$ r US-5701035-\$ r | EPO; JPO; | |
| | | US-5508953-\$ r US-5272376-\$ r | DERWENT; | |
| | | US-3767466-\$ or US-4135039-\$ or | IBM_TDB | |
| | | US-6136658-\$ r US-6016033-\$ or | | |
| | | US-5840609-\$ or US-5668410-\$ or | | |
| | | US-5571391-\$ or US-4423087-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6323512-\$ or US-6313539-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | | i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de | | |
| | | (US-5790366-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5739587-\$ or US-5612560-\$ or | | |
| | | US-5587623-\$ or US-5527567-\$ or | | |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | US-5229313-\$ or US-5111267-\$ or | | |
| | | US-5005102-\$ or US-4824796-\$ or | | |
| | | US-4816424-\$ or US-4451841-\$ or | | : |
| | | US-4251820-\$ or US-4167607-\$ or | | |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | 1 | US-6215186-\$ or US-6121134-\$ or | | |
| | 1 | US-6180522-\$ or US-6054191-\$ or | | |
| | | US-5986313-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5747116-\$ or | | |
| | | US-5714804-\$ or US-5721175-\$ or | | |
| | | US-5712193-\$ or US-5696389-\$ or | | |
| | | US-5705428-\$ or US-5670421-\$ or | | |
| | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| | | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | | |
| | | US-5619393-\$ or US-5581436-\$ or | | |
| | | US-5576928-\$ or US-5568422-\$ or | | |
| | | | | |
| | | US-5566045-\$ or US-5420612-\$ or | | |
| | | US-5411912-\$ r US-5382817-\$ r | | |
| | | US-5336922-\$ r US-3773554-\$ r | | |
| | | US-6399982-\$ r US-6238994-\$ r | | |
| | 1 | US-6188097-\$ or US-6396097-\$ r | | |
| | 1 | US-6346746-\$ or US-6331356-\$ r | | |
| | | US-6326936-\$).did. r (US-6316831-\$ or | | |
| arch His | t ry 7/8/02 | 14830276999-\$ padlS20218258-\$ or | | |
| | 1 - | eki 6992189056 &ae likka 6188137-\$r | | |
| | | US-6130124-\$ r US-6114198-\$ r | | 1 |

| US-6051778-\$ r US-5966629-\$ r US-5793600-\$ r US-5701035-\$ r US-5508953-\$ or US-5272376-\$ r US-3767466-\$ or US-4135039-\$ or US-6136658-\$ r US-6016033-\$ or US-5840609-\$ or US-5668410-\$ or US-5571391-\$ or US-6327013-\$ or US-6402579-\$ or US-6313539-\$ or US-6148221-\$ or US-5964794-\$ or US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-587623-\$ or US-5491102-\$ or US-5491102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4451841-\$ or US-4933150-\$ or US-6297517-\$ or US-5668040-\$ or US-6410420-\$ or US-6403417-\$ or US-6384443-\$ or | US-P PUB; EPO; JPO; DERWENT; IBM_TDB | 16:02 |
|--|---|---|
| US-5508953-\$ or US-5272376-\$ r US-3767466-\$ or US-4135039-\$ or US-6136658-\$ r US-6016033-\$ or US-5840609-\$ or US-5668410-\$ or US-5571391-\$ or US-4423087-\$ or US-6402579-\$ or US-6327013-\$ or US-6323512-\$ or US-6313539-\$ or US-6148221-\$ or US-5964794-\$ or US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5807774-\$).did. or (US-5790366-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5478610-\$ or US-5229313-\$ or US-5478610-\$ or US-5229313-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4451841-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-6410420-\$ or | DERWENT; IBM_TDB | |
| US-3767466-\$ or US-4135039-\$ or US-6136658-\$ r US-6016033-\$ or US-5840609-\$ or US-5668410-\$ or US-5571391-\$ or US-6327013-\$ or US-6402579-\$ or US-6327013-\$ or US-6323512-\$ or US-5964794-\$ or US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5872419-\$ or US-5789320-\$ or US-5789268-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5478610-\$ or US-5229313-\$ or US-5478610-\$ or US-5229313-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-497517-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-6410420-\$ or | IBM_TDB | |
| US-6136658-\$ r US-6016033-\$ or US-5840609-\$ or US-5668410-\$ or US-5571391-\$ or US-4423087-\$ or US-6402579-\$ or US-6327013-\$ or US-6323512-\$ or US-6313539-\$ or US-6148221-\$ or US-5964794-\$ or US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5739587-\$ or US-5527567-\$ or US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5478610-\$ or US-5229313-\$ or US-4824796-\$ or US-4816424-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-5840609-\$ or US-5668410-\$ or US-5571391-\$ or US-4423087-\$ or US-6402579-\$ or US-6327013-\$ or US-6323512-\$ or US-6313539-\$ or US-6148221-\$ or US-5964794-\$ or US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5739587-\$ or US-5527567-\$ or US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5478610-\$ or US-5229313-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4451841-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-6410420-\$ or | | |
| US-5571391-\$ or US-4423087-\$ or US-6402579-\$ or US-6327013-\$ or US-6323512-\$ or US-6313539-\$ or US-6148221-\$ or US-5964794-\$ or US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5478610-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-6410420-\$ or | | |
| US-6402579-\$ or US-6327013-\$ or US-6323512-\$ or US-6313539-\$ or US-6148221-\$ or US-5964794-\$ or US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5807774-\$).did. or (US-5790366-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5527567-\$ or US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5478610-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4451841-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-6410420-\$ or | | |
| US-6323512-\$ or US-6313539-\$ or US-6148221-\$ or US-5964794-\$ or US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5491102-\$ or US-5491102-\$ or US-5498610-\$ or US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-6148221-\$ or US-5964794-\$ or US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5491102-\$ or US-5498610-\$ or US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-6410420-\$ or | | |
| US-6148221-\$ or US-5964794-\$ or US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5491102-\$ or US-5498610-\$ or US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-6410420-\$ or | | |
| US-5917208-\$ or US-5873977-\$ or US-5872419-\$ or US-5807774-\$).did. or (US-5790366-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5478610-\$ or US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-5872419-\$ or US-5807774-\$).did. or (US-5790366-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5527567-\$ or US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| (US-5790366-\$ or US-5789320-\$ or US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5527567-\$ or US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-6410420-\$ or | | |
| US-5789268-\$ or US-5742122-\$ or US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5478610-\$ or US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-5739587-\$ or US-5612560-\$ or US-5587623-\$ or US-5527567-\$ or US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-5587623-\$ or US-5527567-\$ or US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-5491102-\$ or US-5478610-\$ or US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-5005102-\$ or US-4824796-\$ or US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-4816424-\$ or US-4451841-\$ or US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-4251820-\$ or US-4167607-\$ or US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | 1 |
| US-5903053-\$ or US-6297517-\$ or US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-6133150-\$ or US-5907188-\$ or US-5668040-\$ or US-6410420-\$ or | | |
| US-5668040-\$ or US-6410420-\$ or | 1 | |
| | | |
| U3-04U34T7-3 OF U3-0384443-3 OF | | |
| | _ | |
| US-6376351-\$).did. or (US-6368900-\$ o | r | |
| US-6323115-\$ or US-6320261-\$ or | | |
| US-6316360-\$ or US-6297153-\$ or | | |
| US-6262485-\$ or US-6284611-\$ or | | |
| US-6236090-\$ or US-6235630-\$ or | | |
| US-6228731-\$ or US-6222267-\$ or | | |
| US-6215186-\$ or US-6121134-\$ or | | |
| US-6180522-\$ or US-6054191-\$ or | | |
| US-5986313-\$ or US-5885898-\$ or | | |
| US-5885896-\$ or US-5747116-\$ or | | |
| US-5714804-\$ or US-5721175-\$ or | | |
| US-5712193-\$ or US-5696389-\$ or | | |
| US-5705428-\$ or US-5670421-\$ or | | |
| | | |
| (US-5305519-\$ or US-5138425-\$ or | | |
| US-6348735-\$ or US-6066891-\$ or | | |
| US-6211005-\$ or US-5406447-\$ or | | |
| US-6051486-\$ or US-6037663-\$ or | | |
| US-5973408-\$ or US-5703403-\$ or | | |
| US-5619393-\$ or US-5581436-\$ or | | |
| US-5576928-\$ or US-5568422-\$ or | | |
| US-5566045-\$ or US-5420612-\$ or | | |
| US-5411912-\$ r US-5382817-\$ r | | |
| US-5336922-\$ r US-3773554-\$ r | | |
| US-6399982-\$ r US-6238994-\$ r | | |
| US-6188097-\$ r US-6396097-\$ or | | |
| | | |
| , , | r | |
| · · · · · · · · · · · · · · · · · · · | - | |
| | | |
| | US-5498768-\$ or US-5316977-\$).did. or (US-5305519-\$ or US-5138425-\$ or US-6348735-\$ or US-6066891-\$ or US-6211005-\$ or US-5406447-\$ or US-6051486-\$ or US-5703403-\$ or US-5973408-\$ or US-5581436-\$ or US-5619393-\$ or US-558422-\$ or US-5576928-\$ or US-5568422-\$ or US-5566045-\$ or US-5420612-\$ or US-5411912-\$ r US-5382817-\$ r US-6399982-\$ r US-6238994-\$ r US-6188097-\$ r US-6396097-\$ or US-6346746-\$ or US-6331356-\$ r US-6326936-\$).did. r (US-6316831-\$ 18/02 14836276949-\$ pagls 29218258-\$ r | US-5498768-\$ or US-5316977-\$).did. or (US-5305519-\$ or US-6138425-\$ or US-6348735-\$ or US-6066891-\$ or US-6211005-\$ or US-5406447-\$ or US-6051486-\$ or US-6037663-\$ or US-5973408-\$ or US-5703403-\$ or US-5619393-\$ or US-5581436-\$ or US-5576928-\$ or US-5568422-\$ or US-5576928-\$ or US-5420612-\$ or US-5411912-\$ r US-5382817-\$ r US-5336922-\$ r US-3773554-\$ r US-6399982-\$ r US-6238994-\$ r US-6188097-\$ r US-6396097-\$ or US-6346746-\$ or US-6331356-\$ r US-6326936-\$).did. r (US-6316831-\$ r |

| 45 | ///// 000 107 10 110 000000 1 0 | 110047 | 0000/07/00 |
|-----------------------|--|-----------------------|---------------------|
| - 15 | (((US-6284654-\$ r US-6222204-\$ r | USPAT; US-PGPUB: | 2002/07/02 16:05 |
| | US-6051778-\$ or US-5966629-\$ r | , | 10:05 |
| | US-5793600-\$ or US-5701035-\$ r | EPO; JPO; DERWENT; | |
| | US-5508953-\$ or US-5272376-\$ r | IBM_TDB | |
| | US-3767466-\$ r US-4135039-\$ r | IBM_IDB | |
| | US-6136658-\$ or US-6016033-\$ or | | |
| | US-5840609-\$ or US-5668410-\$ or | | |
| | US-5571391-\$ or US-4423087-\$ or | | |
| | US-6402579-\$ or US-6327013-\$ or | | |
| | US-6323512-\$ or US-6313539-\$ or | | |
| | US-6148221-\$ or US-5964794-\$ or | | |
| | US-5917208-\$ or US-5873977-\$ or | | |
| | US-5872419-\$ or US-5807774-\$).did. or | | |
| | (US-5790366-\$ or US-5789320-\$ or | | |
| | US-5789268-\$ or US-5742122-\$ or | | |
| | US-5739587-\$ or US-5612560-\$ or | | |
| | US-5587623-\$ or US-5527567-\$ or | | |
| | US-5491102-\$ or US-5478610-\$ or | | |
| | US-5229313-\$ or US-5111267-\$ or | | |
| | US-5005102-\$ or US-4824796-\$ or | | |
| | US-4816424-\$ or US-4451841-\$ or | | |
| | US-4251820-\$ or US-4167607-\$ or | | |
| | US-5903053-\$ or US-6297517-\$ or | | |
| | US-6133150-\$ or US-5907188-\$ or | | |
| | US-5668040-\$ or US-6410420-\$ or | | |
| | US-6403417-\$ or US-6384443-\$ or | | |
| | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | US-6323115-\$ or US-6320261-\$ or | | |
| | US-6316360-\$ or US-6297153-\$ or | | |
| | US-6262485-\$ or US-6284611-\$ or | | |
| *** | US-6236090-\$ or US-6235630-\$ or | | |
| 7 | US-6228731-\$ or US-6222267-\$ or | | |
| | US-6215186-\$ or US-6121134-\$ or | | |
| | US-6180522-\$ or US-6054191-\$ or | | |
| | US-5986313-\$ or US-5885898-\$ or | | |
| | US-5885896-\$ or US-5747116-\$ or | | |
| | US-5714804-\$ or US-5721175-\$ or | | |
| | US-5712193-\$ or US-5696389-\$ or | | |
| | US-5705428-\$ or US-5670421-\$ or | | |
| | US-5498768-\$ or US-5316977-\$).did. or | | |
| | (US-5305519-\$ or US-5138425-\$ or | | |
| | US-6348735-\$ or US-6066891-\$ or | | |
| | US-6211005-\$ or US-5406447-\$ or | | |
| | US-6051486-\$ or US-6037663-\$ or | | |
| | US-5973408-\$ or US-5703403-\$ or | | |
| | US-5619393-\$ or US-5581436-\$ or | | |
| | US-5576928-\$ or US-5568422-\$ or | | |
| | US-5566045-\$ or US-5420612-\$ or | | |
| | US-5411912-\$ or US-5382817-\$ r | | |
| | US-5336922-\$ or US-3773554-\$ r | | |
| | US-6399982-\$ r US-6238994-\$ r | | |
| | US-6188097-\$ r US-6396097-\$ r | | |
| | US-6346746-\$ or US-6331356-\$ r | | |
| | US-6326936-\$).did. r (US-6316831-\$ r | | |
| | 14930276999-\$ PagliS29218258-\$ r | | |
| C:\APPS\ ast\w rkspac | <u>։ Ա6992189056_€ace</u> ы№ β188137-\$ or | | |
| | US-6130124-\$ or US-6114198-\$ r | l | l |

| • | 0 | (((US-6284654-\$ r US-6222204-\$ r | USPAT; | 2002/07/02 |
|----------|------------|--|-----------|------------|
| | | US-6051778-\$ r US-5966629-\$ r | US-P PUB; | 16:05 |
| | | US-5793600-\$ r US-5701035-\$ r | EPO; JPO; | |
| | | US-5508953-\$ r US-5272376-\$ r | DERWENT; | |
| | | US-3767466-\$ r US-4135039-\$ r | IBM_TDB | |
| | | US-6136658-\$ or US-6016033-\$ r | | |
| | | US-5840609-\$ or US-5668410-\$ or | | |
| | | US-5571391-\$ or US-4423087-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6323512-\$ or US-6313539-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | | (US-5790366-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5739587-\$ or US-5612560-\$ or | | |
| | | US-5587623-\$ or US-5527567-\$ or | | \$ |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | US-5229313-\$ or US-5111267-\$ or | | |
| | | US-5005102-\$ or US-4824796-\$ or | | |
| | | US-4816424-\$ or US-4451841-\$ or | | |
| | | US-4251820-\$ or US-4167607-\$ or | | |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | • | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | ļ | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | | US-6215186-\$ or US-6121134-\$ or US-6180522-\$ or US-6054191-\$ or | | |
| | | • | | |
| | | US-5986313-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5747116-\$ or | | |
| | | US-5714804-\$ or US-5721175-\$ or | | |
| | | US-5712193-\$ or US-5696389-\$ or | | |
| | i | US-5705428-\$ or US-5670421-\$ or | | |
| | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| | | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | | |
| | | US-5619393-\$ or US-5581436-\$ or | | |
| | | US-5576928-\$ or US-5568422-\$ or | | |
| | | US-5566045-\$ or US-5420612-\$ or | 1 | |
| | | US-5411912-\$ r US-5382817-\$ r | | |
| | | US-5336922-\$ r US-3773554-\$ r | | |
| | | US-6399982-\$ r US-6238994-\$ or | | |
| | | US-6188097-\$ r US-6396097-\$ r | | |
| | | US-6346746-\$ r US-6331356-\$ r | | |
| | | US-6326936-\$).did. r (US-6316831-\$ r | | |
| | | 14830236499-\$ PagliS28218258-\$ r | | |
| ADDCI of | 4)workense | e ს 69921280 ნნ - £ase სა ზინ188137-\$r | 1 | ł . |

| _ | 0 | (((US-6284654-\$ r US-6222204-\$ r | USPAT; | 2002/07/02 |
|----------|---------------|--|-----------|------------|
| | • | US-6051778-\$ or US-5966629-\$ r | US-P PUB: | 16:06 |
| | | US-5793600-\$ or US-5701035-\$ r | EPO; JPO; | 10.00 |
| ļ | | US-5508953-\$ or US-5272376-\$ r | DERWENT; | |
| | | US-3767466-\$ r US-4135039-\$ r | IBM_TDB | |
| | | US-6136658-\$ r US-6016033-\$ r | 15.0155 | |
| | | US-5840609-\$ or US-5668410-\$ or | | |
| | | | | |
| | | US-5571391-\$ or US-4423087-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| ļ | | US-6323512-\$ or US-6313539-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | | (US-5790366-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5739587-\$ or US-5612560-\$ or | | |
| | | US-5587623-\$ or US-5527567-\$ or | | |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | US-5229313-\$ or US-5111267-\$ or | | |
| | | US-5005102-\$ or US-4824796-\$ or | | |
| | | US-4816424-\$ or US-4451841-\$ or | | |
| | | US-4251820-\$ or US-4167607-\$ or | | , |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | } | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | | US-6215186-\$ or US-6121134-\$ or | | |
| | | US-6180522-\$ or US-6054191-\$ or | | |
| | | US-5986313-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5747116-\$ or | | |
| 1 | | US-5714804-\$ or US-5721175-\$ or | | |
| | | US-5712193-\$ or US-5696389-\$ or | | |
| | | US-5705428-\$ or US-5670421-\$ or | | |
| | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| | | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | | |
| | | US-5619393-\$ or US-5581436-\$ or | | |
| | | US-5576928-\$ or US-5568422-\$ or | | |
| | | US-5566045-\$ or US-5420612-\$ or | | |
| | | US-5411912-\$ r US-5382817-\$ r | Ì | |
| | | US-5336922-\$ r US-3773554-\$ r | | |
| | | US-6399982-\$ r US-6238994-\$ r | | |
| | | US-6188097-\$ r US-6396097-\$ r | | |
| | | • | | |
| | | US-6346746-\$ r US-6331356-\$ r | | |
| | = :-:- | US-6326936-\$).did. r (US-6316831-\$ or | | |
| | | 14930276499-5 pagUS26218258-5 r | | |
| Mrr5/ aș | tw rkspac | e Ы6992182056_€aseЫ№ 6188137-\$r | | I |

| | 0.5 | | HCDAT | 2002/07/03 |
|----|------|---|-----------------------|------------|
| • | 25 | electr de and "titanium nitrid " and | USPAT; | 10:27 |
| | | rati .ti,clms. | US-P PUB; | 10:27 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | 897 | | IBM_TDB | 2002/07/03 |
| - | 697 | (" I ctr de structure" r "c ntact structure" | USPAT; | 1 |
| | | or "interconnect structure") near (multilayer | US-PGPUB; | 10:38 |
| | | or multi-layer or multilayered or | EPO; JPO; | |
| | | multi-layered) | DERWENT; | |
| | | //Uplactuada atmactavasu au Upautaat | IBM_TDB | 2002/07/03 |
| - | 9 | (("electrode structure" or "contact | USPAT; | 10:42 |
| | | structure" or "interconnect structure") near | US-PGPUB; | 10:42 |
| | | (multilayer or multi-layer or multilayered or | EPO; JPO; DERWENT; | |
| | | multi-layered)) and ((nitrogen or nitride or | _ | |
| | 1156 | titanium) near5 ratio) ("electrode structure" or "contact structure" | IBM_TDB | 2002/07/03 |
| - | 1136 | • | USPAT; US-PGPUB; | 10:40 |
| | | or "interconnect structure") near5 (multilayer or multi-layer or multilayered or | EPO; JPO; | 10.70 |
| | | multi-layered) | DERWENT; | # : |
| | | muiti-iayereu) | IBM_TDB | |
| | 15 | (("electrode structure" or "contact | USPAT; | 2002/07/03 |
| •, | 13 | structure" or "interconnect structure") | US-PGPUB; | 10:49 |
| | | near5 (multilayer or multi-layer or | EPO; JPO; | 10.43 |
| | | multilayered or multi-layered)) and | DERWENT; | |
| | | ((nitrogen or nitride or titanium) near5 ratio) | IBM_TDB | |
| _ | 1873 | (stoichiometric near10 ratio) and ("titanium | USPAT; | 2002/07/03 |
| - | 10/3 | nitride" or TiN) | US-PGPUB; | 10:50 |
| | | include of file) | EPO; JPO; | 10.50 |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| : | 208 | ((stoichiometric near10 ratio) and ("titanium | USPAT; | 2002/07/03 |
| _ | 200 | nitride" or TiN)) and (resistance near10 | US-PGPUB; | 10:52 |
| | | (lowered or reduced or lowering or reducing | EPO; JPO; | 10.02 |
| | | or decrease or decreased or decreasing)) | DERWENT; | |
| | | 2. 230.0000 of deoleasing)) | IBM_TDB | |
| • | 170 | (((stoichiometric near10 ratio) and | USPAT; | 2002/07/03 |
| | | ("titanium nitride" or TiN)) and (resistance | US-PGPUB; | 10:53 |
| | | near10 (lowered or reduced or lowering or | EPO; JPO; | |
| | | reducing or decrease or decreased or | DERWENT; | |
| | | decreasing))) and (electrode or contact or | IBM_TDB | |
| | | interconnect) | , , <u></u> | |
| | 27 | ((((stoichiometric near10 ratio) and | USPAT; | 2002/07/03 |
| | | ("titanium nitride" or TiN)) and (resistance | US-PGPUB; | 11:14 |
| | | near10 (lowered or reduced or lowering or | EPO; JPO; | |
| | | reducing or decrease or decreased or | DERWENT; | |
| | | decreasing))) and (electrode or contact or | IBM_TDB | |
| | | interconnect)) and ((titanium or nitrogen or | - - | |
| | | nitride or "inert gas" or tungsten) near5 | | |
| | | rati) | | |
| _ | 3773 | (silicon n ar5 (film r layer)) and (barri r | USPAT; | 2002/07/03 |
| | | n ar5 (lay r r film)) and (silicid or | US-PGPUB; | 11:23 |
| | | tungstend rm lybd num or "high m lting | EPO; JPO; | |
| | | point") and ("titanium nitrid " r TiN) | DERWENT; | |
| | | , , , | IBM_TDB | |

| - | 321 | ((silic n near5 (film or lay r)) and (barri r | USPAT; | 2002/07/03 |
|---|-----|--|-----------|------------|
| | | n ar5 (layer r film)) and (silicid r | US-PGPUB; | 11:46 |
| | | tungst nd r molybdenum r "high melting | EP ; JPO; | |
| | | p int") and ("titanium nitride" r TiN)) and | DERWENT; | |
| | | (rati n ar5 (titanium r nitr g n r "inert | IBM_TDB | |
| | i . | gas" r nitride)) | | |
| • | 122 | (((silicon near5 (film or layer)) and (barrier | USPAT; | 2002/07/03 |
| | | near5 (layer or film)) and (silicide or | US-PGPUB; | 11:47 |
| | | tungstend or molybdenum or "high melting | EPO; JPO; | |
| | | point") and ("titanium nitride" or TiN)) and | DERWENT; | |
| | | (ratio near5 (titanium or nitrogen or "inert | IBM_TDB | |
| | | gas" or nitride))) and (multilayer or | | |
| | | multi-layer or multilayered or multi-layered) | | |

| - 212 | (US-6284654-\$ or US-6222204-\$ r | USPAT; | 2002/07/03 |
|-----------------------|---|-----------|------------|
| - 212 | US-6051778-\$ r US-5966629-\$ r | US-PGPUB; | |
| | • | 1 | 12.55 |
| | US-5793600-\$ r US-5701035-\$ r | EPO; | |
| | US-5508953-\$ r US-5272376-\$ or | DERWENT | |
| | US-3767466-\$ r US-4135039-\$ r | | |
| | US-6136658-\$ r US-6016033-\$ r | | |
| | US-5840609-\$ or US-5668410-\$ or | | |
| | US-5571391-\$ or US-4423087-\$ or | | |
| | US-6402579-\$ or US-6327013-\$ or | | |
| | US-6323512-\$ or US-6313539-\$ or | | |
| | US-6148221-\$ or US-5964794-\$ or | | |
| | US-5917208-\$ or US-5873977-\$ or | | |
| | US-5872419-\$ or US-5807774-\$).did. or | | |
| | (US-5790366-\$ or US-5789320-\$ or | | |
| | US-5789268-\$ or US-5742122-\$ or | | |
| | US-5739587-\$ or US-5612560-\$ or | | 1 |
| | US-5587623-\$ or US-5527567-\$ or | | |
| | US-5491102-\$ or US-5478610-\$ or | | <u> </u> |
| | US-5229313-\$ or US-5111267-\$ or | | Ì |
| | US-5005102-\$ or US-4824796-\$ or | | |
| | US-4816424-\$ or US-4451841-\$ or | | |
| | US-4251820-\$ or US-4167607-\$ or | | |
| | US-5903053-\$ or US-6297517-\$ or | | |
| | US-6133150-\$ or US-5907188-\$ or | | |
| | US-5668040-\$ or US-6410420-\$ or | | |
| | US-6403417-\$ or US-6384443-\$ or | | |
| | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | US-6323115-\$ or US-6320261-\$ or | | |
| | US-6316360-\$ or US-6297153-\$ or | - | |
| | US-6262485-\$ or US-6284611-\$ or | | |
| | US-6236090-\$ or US-6235630-\$ or | 1 | |
| *** | US-6228731-\$ or US-6222267-\$ or | | |
| | US-6215186-\$ or US-6121134-\$ or | | |
| 1 | US-6180522-\$ or US-6054191-\$ or | | |
| | US-5986313-\$ or US-5885898-\$ or | | |
| | US-5885896-\$ or US-5747116-\$ or | | |
| | US-5714804-\$ or US-5721175-\$ or | | |
| | US-5712193-\$ or US-5696389-\$ or | | |
| | US-5705428-\$ or US-5670421-\$ or | | |
| | US-5498768-\$ or US-5316977-\$).did. or | | |
| | (US-5305519-\$ or US-5138425-\$ or | 1 | |
| | US-6348735-\$ or US-6066891-\$ or |] | |
| | US-6211005-\$ or US-5406447-\$ or | 1 | |
| | US-6051486-\$ or US-6037663-\$ or | | |
| | • | 1 | |
| | US-5973408-\$ or US-5703403-\$ or | - | † |
| | US-5619393-\$ or US-5581436-\$ or | | |
| | US-5576928-\$ or US-5568422-\$ or | | |
| | US-5566045-\$ or US-5420612-\$ or | 1 | |
| | US-5411912-\$ or US-5382817-\$ r | | |
| | US-5336922-\$ or US-3773554-\$ r | | |
| | US-6399982-\$ or US-6238994-\$ r | | |
| | US-6188097-\$ r US-6396097-\$ or | | |
| | US-6346746-\$ r US-6331356-\$ or | | |
| | US-6326936-\$).did. r (US-6316831-\$ r | | |
| | 14830276999-\$ Pagls29218258-\$ r | | |
| C:\APPS\east\w rkspac | е <u>Ы6992193056-</u> &жееЫ% 6188137-\$ r | | |
| | US-6130124-\$ r US-6114198-\$ r | 1 | 1 |

| • | 162 | ((US-6284654-\$ or US-6222204-\$ r | USPAT; | 2002/07/03 |
|---|-------------|---|-----------|------------|
| | | US-6051778-\$ r US-5966629-\$ r | US-PGPUB; | 12:57 |
| | | US-5793600-\$ r US-5701035-\$ r | EPO; JPO; | |
| | | US-5508953-\$ r US-5272376-\$ or | DERWENT; | |
| | | US-3767466-\$ r US-4135039-\$ r | IBM_TDB | |
| | | US-6136658-\$ r US-6016033-\$ r | | |
| | | US-5840609-\$ or US-5668410-\$ or | | |
| | | US-5571391-\$ or US-4423087-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6323512-\$ or US-6313539-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | | (US-5790366-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5739587-\$ or US-5612560-\$ or | | |
| | | US-5587623-\$ or US-5527567-\$ or | | |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | US-5229313-\$ or US-5111267-\$ or | | |
| | | • | | |
| | | US-5005102-\$ or US-4824796-\$ or | | |
| | | US-4816424-\$ or US-4451841-\$ or | | : |
| | | US-4251820-\$ or US-4167607-\$ or | | 1 |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | | US-6215186-\$ or US-6121134-\$ or | | |
| | | US-6180522-\$ or US-6054191-\$ or | | |
| | | US-5986313-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5747116-\$ or | | |
| | | US-5714804-\$ or US-5721175-\$ or | | |
| | | US-5712193-\$ or US-5696389-\$ or | | |
| | | US-5705428-\$ or US-5670421-\$ or | | |
| | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| |] | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | | |
| | | US-5619393-\$ or US-5581436-\$ or | | |
| | | US-5576928-\$ or US-5568422-\$ or | | |
| | | US-5566045-\$ or US-5420612-\$ or | | |
| | | US-5411912-\$ r US-5382817-\$ r | | |
| | | · | | |
| | | US-5336922-\$ r US-3773554-\$ r | | |
| | | US-6399982-\$ r US-6238994-\$ r | | |
| | | US-6188097-\$ r US-6396097-\$ r | | |
| | | US-6346746-\$ r US-6331356-\$ r | | |
| | <u> </u> | US-6326936-\$).did. r (US-6316831-\$ r | | |
| | tory 7/8/02 | 14830276999-\$ Padls28218258-\$ r | i | I |
| | | е Ы 693921283056_бавеЫ %-6188137-\$r | | |

| . | 144 | (((US-6284654-\$ r US-6222204-\$ r | USPAT; | 2002/07/03 |
|---|------------|--|-----------|------------|
| | | US-6051778-\$ r US-5966629-\$ r | US-PGPUB; | 12:57 |
| | | US-5793600-\$ or US-5701035-\$ r | EP ; JP ; | |
| | | US-5508953-\$ r US-5272376-\$ r | DERWENT; | |
| | | US-3767466-\$ r US-4135039-\$ r | IBM_TDB | |
| | | US-6136658-\$ r US-6016033-\$ r | <u>-</u> | |
| | | US-5840609-\$ or US-5668410-\$ or | | |
| | | US-5571391-\$ or US-4423087-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6323512-\$ or US-6313539-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | | (US-5790366-\$ or US-5789320-\$ or | | |
| 1 | | US-5789268-\$ or US-5742122-\$ or | | |
| 1 | | US-5739587-\$ or US-5612560-\$ or | | |
| | | US-5587623-\$ or US-5527567-\$ or | | |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | US-5229313-\$ or US-5111267-\$ or | | |
| | | US-5005102-\$ or US-4824796-\$ or | | |
| Í | | US-4816424-\$ or US-4451841-\$ or | · | |
| | | US-4251820-\$ or US-4167607-\$ or | | |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | · | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | l | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | | US-6215186-\$ or US-6121134-\$ or | | |
| | | US-6180522-\$ or US-6054191-\$ or | | |
| 1 | | US-5986313-\$ or US-5885898-\$ or US-5885896-\$ or US-5747116-\$ or | | |
| | | | | |
| | | US-5714804-\$ or US-5721175-\$ or US-5712193-\$ or US-5696389-\$ or | | |
| Ì | ļ | | | |
| ļ | | US-5705428-\$ or US-5670421-\$ or | | |
| | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| | | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | | |
| | Ì | US-5619393-\$ or US-5581436-\$ or | | |
| | | US-5576928-\$ or US-5568422-\$ or | | |
| | | US-5566045-\$ or US-5420612-\$ or | 1 | |
| | | US-5411912-\$ r US-5382817-\$ r | | |
| | | US-5336922-\$ r US-3773554-\$ r | | |
| | | US-6399982-\$ r US-6238994-\$ r | | |
| | | US-6188097-\$ r US-6396097-\$ r | | |
| | İ | US-6346746-\$ r US-6331356-\$ r | | |
| | | US-6326936-\$).did. or (US-6316831-\$ r | | |
| | | 148382364999-\$ psglS28218258-\$ r | | |
| | New Phonon | e ს,69921280ნნ_€ase ს ანგ188137-\$r | 1 | |

| - | 40 | ((((US-6284654-\$ r US-6222204-\$ or | USPAT; | 2002/07/03 |
|----------|---------------|--|-----------|------------|
| | | US-6051778-\$ r US-5966629-\$ r | US-PGPUB; | 12:57 |
| | | US-5793600-\$ r US-5701035-\$ r | EPO; JPO; | |
| |] | US-5508953-\$ r US-5272376-\$ or | DERWENT; | |
| | | US-3767466-\$ r US-4135039-\$ or | IBM_TDB | |
| | | US-6136658-\$ r US-6016033-\$ r | | |
| | | US-5840609-\$ or US-5668410-\$ or | | |
| | | US-5571391-\$ or US-4423087-\$ or | 1 | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6323512-\$ or US-6313539-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | | (US-5790366-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5739587-\$ or US-5612560-\$ or | | |
| | | US-5587623-\$ or US-5527567-\$ or | | |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | • | | |
| | | US-5229313-\$ or US-5111267-\$ or US-5005102-\$ or US-4824796-\$ or | | |
| | [| | | |
| | 1 | US-4816424-\$ or US-4451841-\$ or | | |
| | | US-4251820-\$ or US-4167607-\$ or | | |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | | US-6215186-\$ or US-6121134-\$ or | | |
| | | US-6180522-\$ or US-6054191-\$ or | | |
| | | US-5986313-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5747116-\$ or | | |
| | | US-5714804-\$ or US-5721175-\$ or | | |
| | | US-5712193-\$ or US-5696389-\$ or | | |
| | | US-5705428-\$ or US-5670421-\$ or | | |
| | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| | | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | | |
| | | US-5619393-\$ or US-5581436-\$ or | | |
| | | US-5576928-\$ or US-5568422-\$ or | | |
| | | US-5566045-\$ or US-5420612-\$ or | | |
| | | US-5411912-\$ r US-5382817-\$ r | | |
| | | US-5336922-\$ r US-3773554-\$ r | | |
| | | US-6399982-\$ r US-6238994-\$ r | | |
| | | US-6188097-\$ r US-6396097-\$ r | | |
| | | US-6346746-\$ r US-6331356-\$ r | | |
| | | US-6326936-\$).did. r (US-6316831-\$ r | | |
| arch His | t ny 7/8/02 | 14930276999-\$ pagk530218258-\$ r | | |
| | 1 - | eki6992199266_€aseki666188137-\$ r | | |
| | Stitt Inspace | US-6130124-\$ or US-6114198-\$ r | | |

| • | 26 | (((((US-6284654-\$ r US-6222204-\$ r | USPAT; | 2002/07/03 |
|--------------|--------|---|-----------|------------|
| | | US-6051778-\$ r US-5966629-\$ r | US-PGPUB; | 13:07 |
| | | US-5793600-\$ r US-5701035-\$ r | EPO; JPO; | |
| | | US-5508953-\$ r US-5272376-\$ or | DERWENT; | |
| | | US-3767466-\$ r US-4135039-\$ or | IBM_TDB | |
| | | US-6136658-\$ r US-6016033-\$ r | | |
| } | | US-5840609-\$ or US-5668410-\$ or | | |
| | | US-5571391-\$ or US-4423087-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6323512-\$ or US-6313539-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| ĺ | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | | (US-5790366-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5739587-\$ or US-5612560-\$ or | | |
| | | US-5587623-\$ or US-5527567-\$ or | | |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | US-5229313-\$ or US-5111267-\$ or | | |
| | | US-5005102-\$ or US-4824796-\$ or | | |
| | | US-4816424-\$ or US-4451841-\$ or | | |
| i | | US-4251820-\$ or US-4167607-\$ or | | |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | • | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | | US-6215186-\$ or US-6121134-\$ or | | |
| | | US-6180522-\$ or US-6054191-\$ or | | |
| | | US-5986313-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5747116-\$ or | | |
| | | US-5714804-\$ or US-5721175-\$ or | | |
| | | US-5712193-\$ or US-5696389-\$ or | | |
| İ | | US-5705428-\$ or US-5670421-\$ or | | |
| } | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| | | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | | |
| | | US-5619393-\$ or US-5581436-\$ or | | |
| 1 | | US-5576928-\$ or US-5568422-\$ or | | |
| | | US-5566045-\$ or US-5420612-\$ or | | |
| | | US-5411912-\$ or US-5382817-\$ r | 1 | |
| ļ | | US-5336922-\$ or US-3773554-\$ r | | |
| | | US-6399982-\$ r US-6238994-\$ or | | |
| | | US-6188097-\$ or US-6396097-\$ r | | |
| | | US-6346746-\$ r US-6331356-\$ r | | |
| | ļ | US-6326936-\$).did. or (US-6316831-\$ r | | |
| ovek Windows | 7/0/00 | 14830276899-\$ PadUS9218258-\$ r | | |
| arch History | | - 14459421984566_€aeeы‰6188137-\$ г | | |
| | rnspac | CSVA 2007 NOT PERSONAL PROPERTY OF 12 1.2 L | i | i |

| | 36 | ((US-6284654-\$ r US-6222204-\$ r | USPAT; | 2002/07/03 |
|-----------|-------------|--|--------------|------------|
| • | 30 | US-6051778-\$ r US-5966629-\$ r | US-PGPUB; | 13:14 |
| | | US-5793600-\$ r US-5701035-\$ r | EPO; JPO; | |
| | | US-5508953-\$ r US-5272376-\$ r | DERWENT; | |
| | | US-3767466-\$ r US-4135039-\$ r | IBM TDB | |
| | | US-6136658-\$ or US-6016033-\$ r | 10.11.00 | |
| | | US-5840609-\$ or US-5668410-\$ or | | |
| | | US-5571391-\$ or US-4423087-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | | | |
| | | US-6323512-\$ or US-6313539-\$ or US-6148221-\$ or US-5964794-\$ or | | |
| | | | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | | (US-5790366-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5739587-\$ or US-5612560-\$ or | | |
| | | US-5587623-\$ or US-5527567-\$ or | | |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | US-5229313-\$ or US-5111267-\$ or | | |
| | | US-5005102-\$ or US-4824796-\$ or | | |
| | | US-4816424-\$ or US-4451841-\$ or | | • |
| | | US-4251820-\$ or US-4167607-\$ or | | |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | | US-6215186-\$ or US-6121134-\$ or | | |
| | | US-6180522-\$ or US-6054191-\$ or | | |
| | | US-5986313-\$ or US-5885898-\$ or | | |
| | <u> </u> | US-5885896-\$ or US-5747116-\$ or | | |
| | | US-5714804-\$ or US-5721175-\$ or | | |
| | | US-5712193-\$ or US-5696389-\$ or | | |
| | | US-5705428-\$ or US-5670421-\$ or | | |
| | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| | | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | | |
| | | US-5619393-\$ or US-5581436-\$ or | | |
| | | US-5576928-\$ or US-5568422-\$ or | | |
| | | US-5566045-\$ or US-5420612-\$ or | | |
| | | US-5411912-\$ r US-5382817-\$ r | | |
| | | US-5336922-\$ r US-3773554-\$ r | | |
| | | US-6399982-\$ r US-6238994-\$ r | | |
| | | US-6188097-\$ r US-6396097-\$ r | | |
| | | US-6346746-\$ r US-6331356-\$ r | | |
| | | US-6326936-\$).did. r (US-6316831-\$ or | | |
| S grab U: | 7/9/02 | 14830276 299-5 pagls 3218258-5 r | | |
| | | е Ы6992188056_сасы №6188137-\$ r | | |
| MLL2/65 | asuw irsbac | CEVANOR BOOM FORCEMENT IN 191.4 1 | I | I |

| ſ | 18 | (((US-6284654-\$ r US-6222204-\$ or | USPAT; | 2002/07/03 |
|-------------|-------------|--|-----------|------------|
| | 10 | US-6051778-\$ or US-5966629-\$ r | US-P PUB: | |
| | | US-5793600-\$ r US-5701035-\$ r | EPO; JPO; | |
| | | US-5508953-\$ r US-5272376-\$ r | DERWENT: | |
| | | US-3767466-\$ r US-4135039-\$ r | IBM_TDB | |
| | | US-6136658-\$ r US-6016033-\$ r | 15155 | |
| | | | | : |
| | | US-5840609-\$ or US-5668410-\$ or | | |
| | | US-5571391-\$ or US-4423087-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6323512-\$ or US-6313539-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | | (US-5790366-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5739587-\$ or US-5612560-\$ or | | |
| | | US-5587623-\$ or US-5527567-\$ or | | |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | US-5229313-\$ or US-5111267-\$ or | | |
| | | US-5005102-\$ or US-4824796-\$ or | | |
| | | US-4816424-\$ or US-4451841-\$ or | | |
| | | US-4251820-\$ or US-4167607-\$ or | | |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | | US-6215186-\$ or US-6121134-\$ or | | |
| | | US-6180522-\$ or US-6054191-\$ or | | |
| | | US-5986313-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5747116-\$ or | | |
| | | US-5714804-\$ or US-5721175-\$ or | | |
| | | US-5712193-\$ or US-5696389-\$ or | | |
| | | US-5705428-\$ or US-5670421-\$ or | | |
| | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| | | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | | |
| | | US-5619393-\$ or US-5581436-\$ or | | |
| | | US-5576928-\$ or US-5568422-\$ or | | |
| | | US-5566045-\$ or US-5420612-\$ or | | |
| | | US-5411912-\$ r US-5382817-\$ or | | |
| | | US-5336922-\$ r US-3773554-\$ r | | |
| | | US-6399982-\$ r US-6238994-\$ r | | |
| | | US-6188097-\$ or US-6396097-\$ r | 1 | |
| | | | • | |
| | | US-6346746-\$ or US-6331356-\$ or | | |
| | | US-6326936-\$).did. r (US-6316831-\$ or | | |
| | | 14830276999-\$ pagls38218258-\$ r | | |
| C:\APPS\eas | st\workspac | eki699218256_&aeekk&6188137-\$ r | | |
| Ī | 1 | US-6130124-\$ r US-6114198-\$ r | I | I I |

| | | //!!! | LICDAT | 2002/07/02 |
|----------|-------------|--|-----------|---------------------|
| - | 66 | ((US-6284654-\$ or US-6222204-\$ r | USPAT; | 2002/07/03 13:18 |
| | | US-6051778-\$ or US-5966629-\$ r | US-PGPUB; | 13:16 |
| | | US-5793600-\$ or US-5701035-\$ or | EPO; JPO; | |
| | | US-5508953-\$ r US-5272376-\$ r | DERWENT; | |
| | | US-3767466-\$ r US-4135039-\$ r | IBM_TDB | |
| | | US-6136658-\$ r US-6016033-\$ r | | |
| | | US-5840609-\$ or US-5668410-\$ or | | |
| | | US-5571391-\$ or US-4423087-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6323512-\$ or US-6313539-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | 1 | (US-5790366-\$ or US-5789320-\$ or | | |
| | 1 | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5739587-\$ or US-5612560-\$ or | | |
| | | US-5587623-\$ or US-5527567-\$ or | | |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | US-5229313-\$ or US-5111267-\$ or | ļ | |
| | | US-5005102-\$ or US-4824796-\$ or | | |
| | | US-4816424-\$ or US-4451841-\$ or | | |
| | | US-4251820-\$ or US-4167607-\$ or | | |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | 1 | US-6215186-\$ or US-6121134-\$ or | | |
| | | US-6180522-\$ or US-6054191-\$ or | | |
| | | US-5986313-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5747116-\$ or | | |
| | | US-5714804-\$ or US-5721175-\$ or | | |
| | | US-5712193-\$ or US-5696389-\$ or | | |
| | | US-5705428-\$ or US-5670421-\$ or | | |
| | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| | | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | 1 |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | | 1 |
| | | US-5619393-\$ or US-5581436-\$ or | | |
| | | , | | |
| | | US-5576928-\$ or US-5568422-\$ or | | |
| | | US-5566045-\$ or US-5420612-\$ or | | } |
| | | US-5411912-\$ r US-5382817-\$ r | | |
| | | US-5336922-\$ r US-3773554-\$ r | | 1 |
| | | US-6399982-\$ r US-6238994-\$ r | | |
| | | US-6188097-\$ r US-6396097-\$ r | | |
| | | US-6346746-\$ r US-6331356-\$ r | | |
| | | US-6326936-\$).did. r (US-6316831-\$ or | | |
| | | 14830236999-\$ Paglissa218258-\$ r | | |
| LIABBOLL | st\workspac | e Ы6939213820 56_€aceЫ%-6188137-\$r | 1 | |

| | 14 | (((US-6284654-\$ r US-6222204-\$ r | USPAT; | 2002/07/03 |
|-------------|-----------|---|-----------|------------|
| • | 14 | US-6051778-\$ or US-5966629-\$ r | US-PGPUB; | 13:21 |
| | | US-5793600-\$ or US-5701035-\$ r | EPO; JPO; | |
| | | US-5508953-\$ r US-5272376-\$ r | DERWENT; | |
| | | US-3767466-\$ r US-4135039-\$ r | IBM TDB | |
| | | US-6136658-\$ or US-6016033-\$ or | | |
| | | US-5840609-\$ or US-5668410-\$ or | | |
| | | US-5571391-\$ or US-4423087-\$ or | | |
| | | US-6402579-\$ or US-6327013-\$ or | | |
| | | US-6323512-\$ or US-6313539-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5917208-\$ or US-5873977-\$ or | | |
| | | US-5872419-\$ or US-5807774-\$).did. or | | |
| | | (US-5790366-\$ or US-5789320-\$ or | | |
| | | US-5789268-\$ or US-5742122-\$ or | | |
| | | US-5739587-\$ or US-5612560-\$ or | | |
| · · | | US-5587623-\$ or US-5527567-\$ or | | |
| | | US-5491102-\$ or US-5478610-\$ or | | |
| | | US-5229313-\$ or US-5111267-\$ or | | |
| | | US-5005102-\$ or US-4824796-\$ or | | |
| | | US-4816424-\$ or US-4451841-\$ or | | |
| | | US-4251820-\$ or US-4167607-\$ or | | |
| | | US-5903053-\$ or US-6297517-\$ or | | |
| | | US-6133150-\$ or US-5907188-\$ or | | |
| | | US-5668040-\$ or US-6410420-\$ or | | |
| | | US-6403417-\$ or US-6384443-\$ or | | |
| | | US-6376351-\$).did. or (US-6368900-\$ or | | |
| | - | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316360-\$ or US-6297153-\$ or | | |
| | | US-6262485-\$ or US-6284611-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6228731-\$ or US-6222267-\$ or | | |
| | | US-6215186-\$ or US-6121134-\$ or | | |
| | | US-6180522-\$ or US-6054191-\$ or | | |
| | | US-5986313-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5747116-\$ or | | |
| | | US-5714804-\$ or US-5721175-\$ or | | |
| | | US-5712193-\$ or US-5696389-\$ or | | |
| | | US-5705428-\$ or US-5670421-\$ or | | |
| | | US-5498768-\$ or US-5316977-\$).did. or | | |
| | | (US-5305519-\$ or US-5138425-\$ or | | |
| | | US-6348735-\$ or US-6066891-\$ or | | |
| | | US-6211005-\$ or US-5406447-\$ or | | |
| | | US-6051486-\$ or US-6037663-\$ or | | |
| | | US-5973408-\$ or US-5703403-\$ or | 1 | |
| | | US-5619393-\$ or US-5581436-\$ or | | |
| | | US-5576928-\$ or US-5568422-\$ or | | |
| | | US-5566045-\$ or US-5420612-\$ or | | |
| | | US-5411912-\$ r US-5382817-\$ r | | |
| | | US-5336922-\$ r US-3773554-\$ or | 1 | |
| | | US-6399982-\$ r US-6238994-\$ r | | |
| | | US-6188097-\$ r US-6396097-\$ r | | |
| | | US-6346746-\$ r US-6331356-\$ r | | |
| ; | | US-6326936-\$).did. r (US-6316831-\$ r | | |
| S arch Hist | ry 7/8/02 | 14830276999-\$ PajlS39218258-\$ r | | |
| ł | _ | е Ы 69921282 56 <u>-</u> Саве Ы Бе 6 188137-\$ г | | |
| | | US-6130124-\$ r US-6114198-\$ r | | |
| • | • | • | | |

| | 040 | (IIC CO4400F & IIC FF040CC A | HERAT | 2002/07/02 |
|--------------|------------|---|-----------|------------|
| - | 212 | (US-6211005-\$ r US-5561326-\$ r | USPAT; | 2002/07/03 |
| | | US-5406447-\$ or US-6066891-\$ r | US-P PUB; | 13:40 |
| | | US-6348735-\$ or US-6037663-\$ r | EPO; | |
| | | US-6051486-\$ or US-5973408-\$ r | DERWENT | |
| | | US-5619393-\$ r US-5703403-\$ r | | |
| | | US-5576928-\$ r US-5568422-\$ r | | |
| | | US-5581436-\$ or US-5566045-\$ or | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-3773554-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-6399982-\$ or | | |
| | | US-6188097-\$ or US-6238994-\$ or | | |
| | | US-6396097-\$ or US-6346746-\$ or | | |
| | | US-6316831-\$ or US-6331356-\$).did. or | | |
| | | (US-6326936-\$ or US-6188137-\$ or | | |
| 1 | İ | US-6218258-\$ or US-6274899-\$ or | | |
|] | | US-6218256-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6130124-\$ or | | |
| | | US-6037005-\$ or US-6016033-\$ or | | |
| | | US-6051778-\$ or US-6050827-\$ or | | |
| | | US-5998225-\$ or US-5501995-\$ or | | |
| | | US-6010918-\$ or US-5940698-\$ or | | |
| | | US-5930621-\$ or US-5851896-\$ or | | |
| | ļ | US-5885877-\$ or US-5917208-\$ or | | |
| | | US-5744832-\$ or US-5798542-\$ or | | |
| | | US-5804845-\$ or US-5849605-\$ or | | |
| | | US-5739798-\$ or US-5688726-\$ or | | |
| | | US-5693560-\$).did. or (US-5708302-\$ or | | |
| | | US-5668410-\$ or US-5559399-\$ or | | |
| | | US-5596431-\$ or US-5660177-\$ or | | |
| | | US-5668040-\$ or US-5527735-\$ or | | |
| | | US-5521405-\$ or US-5555486-\$ or | | |
| | | US-5516716-\$ or US-5445711-\$ or | | |
| | | US-5441909-\$ or US-5422307-\$ or | | |
| | | US-4771211-\$ or US-4714586-\$ or | | |
| | | US-4914046-\$ or US-5005102-\$ or | | |
| | | US-4614575-\$ or US-4673455-\$ or | | |
| | | US-5739587-\$ or US-6297517-\$ or | | |
| | | US-6054721-\$ or US-6262458-\$ or | | |
| | | US-6327013-\$ or US-6402579-\$ or | | |
| | | US-6313539-\$ or US-6284654-\$).did. or | | |
| | | (US-5790366-\$ or US-5873977-\$ or | | |
| | | US-5527567-\$ or US-5742122-\$ or | | , |
| | | US-4816424-\$ or US-5478610-\$ or | | |
| | | US-4167607-\$ or US-6323512-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5872419-\$ or US-5789320-\$ or | | |
| | | · | | |
| į l | | US-5807774-\$ or US-5587623-\$ or | | |
| | | US-5612560-\$ or US-5789268-\$ or | | |
| 1 | | US-5229313-\$ r US-5491102-\$ r | | |
| | | US-4824796-\$ r US-5111267-\$ r | | |
| | | US-4451841-\$ or US-4251820-\$ r | • | |
| ļ | | US-6384443-\$ or US-6015990-\$ r | | |
| | | US-6236090-\$ or US-6249082-\$ r | | |
| | | US-6278055-\$).did. r (US-6222204-\$ r | | |
| S arch Hist | · · | 149301363140-\$ pag4536218207-\$ r | | |
| C:\APPS\east | t\w rkspac | e U6999899029_€aceW 565986313-\$ r | | |
| į l | | US-5907188-\$ or US-5701035-\$ r | 1 | |

| | 19 | ((US-6211005-\$ r US-5561326-\$ r | USPAT; | 2002/07/03 |
|-----------|----|---|-----------|------------|
| | | US-5406447-\$ or US-6066891-\$ r | US-PGPUB; | 13:57 |
| |] | US-6348735-\$ r US-6037663-\$ or | EPO; JPO; | |
| | | US-6051486-\$ r US-5973408-\$ r | DERWENT; | |
| | | US-5619393-\$ r US-5703403-\$ r | IBM_TDB | |
| | | US-5576928-\$ r US-5568422-\$ r | | |
| | | US-5581436-\$ or US-5566045-\$ or | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-3773554-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-6399982-\$ or | | ĺ |
| | | US-6188097-\$ or US-6238994-\$ or | | |
| | | US-6396097-\$ or US-6346746-\$ or | | |
| | | US-6316831-\$ or US-6331356-\$).did. or | | |
| | | (US-6326936-\$ or US-6188137-\$ or | | |
| | | US-6218258-\$ or US-6274899-\$ or | | |
| | | US-6218256-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6130124-\$ or | | |
| | | US-6037005-\$ or US-6016033-\$ or | | |
| | | US-6051778-\$ or US-6050827-\$ or | | |
| | | US-5998225-\$ or US-5501995-\$ or | | |
| | | US-6010918-\$ or US-5940698-\$ or | | |
| | | US-5930621-\$ or US-5851896-\$ or | | |
| | | US-5885877-\$ or US-5917208-\$ or | | |
| | | US-5744832-\$ or US-5798542-\$ or | | |
| | | US-5804845-\$ or US-5849605-\$ or | | |
| | | US-5739798-\$ or US-5688726-\$ or | | |
| | | | | |
| | | US-5693560-\$).did. or (US-5708302-\$ or US-5668410-\$ or US-5559399-\$ or | | |
| | | US-5596431-\$ or US-5660177-\$ or | | |
| | | CUS-5668040-\$ or US-5527735-\$ or | | |
| | | US-5521405-\$ or US-5555486-\$ or | | |
| | | US-5516716-\$ or US-5445711-\$ or | | |
| | | US-5441909-\$ or US-5422307-\$ or | | |
| | | US-4771211-\$ or US-4714586-\$ or | | |
| | | US-4914046-\$ or US-5005102-\$ or | | |
| | | US-4614575-\$ or US-4673455-\$ or | | |
| | | | | |
| | | US-5739587-\$ or US-6297517-\$ or | | |
| | | US-6054721-\$ or US-6262458-\$ or | | |
| | | US-6327013-\$ or US-6402579-\$ or | | |
| | | US-6313539-\$ or US-6284654-\$).did. or | | |
| | | (US-5790366-\$ or US-5873977-\$ or | | |
| | | US-5527567-\$ or US-5742122-\$ or | | |
| | | US-4816424-\$ or US-5478610-\$ or | | |
| | | US-4167607-\$ or US-6323512-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5872419-\$ or US-5789320-\$ or | | |
| | | US-5807774-\$ or US-5587623-\$ or | | |
| | | US-5612560-\$ or US-5789268-\$ or | | |
| | | US-5229313-\$ r US-5491102-\$ r | | |
| | | US-4824796-\$ r US-5111267-\$ r | | |
| | | US-4451841-\$ r US-4251820-\$ r | | |
| | | US-6384443-\$ r US-6015990-\$ r | | |
| | | US-6236090-\$ r US-6249082-\$ r | | |
| | | US-6278055-\$).did. r (US-6222204-\$ r | | |
| ar h Hist | _ | 14830136 14H-\$ Pagls 37218207-\$ r | | |
| | | е Ы,69332333029₋бас еЫ,бар986313-\$r | 1 | |

| | 17 | ((US-6211005-\$ r US-5561326-\$ r | USPAT; | 2002/07/03 |
|-------------|-------------|--|---------------|------------|
| | | US-5406447-\$ or US-6066891-\$ r | US-PGPUB; | 14:01 |
| | | US-6348735-\$ or US-6037663-\$ r | EPO; JP ; | |
| | | US-6051486-\$ r US-5973408-\$ r | DERWENT; | |
| | | US-5619393-\$ r US-5703403-\$ r | IBM_TDB | |
| | | US-5576928-\$ r US-5568422-\$ r | | |
| | | US-5581436-\$ or US-5566045-\$ or | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-3773554-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-6399982-\$ or | | |
| | | US-6188097-\$ or US-6238994-\$ or | | |
| | | US-6396097-\$ or US-6346746-\$ or | | |
| | | US-6316831-\$ or US-6331356-\$).did. or | | |
| | | (US-6326936-\$ or US-6188137-\$ or | | |
| | | US-6218258-\$ or US-6274899-\$ or | | |
| | | US-6218256-\$ or US-6114198-\$ or | | j |
| | | US-6089442-\$ or US-6130124-\$ or | | |
| | | | | 1 |
| | | US-6037005-\$ or US-6016033-\$ or | | |
| | | US-6051778-\$ or US-6050827-\$ or | | |
| | • | US-5998225-\$ or US-5501995-\$ or | | |
| | | US-6010918-\$ or US-5940698-\$ or | | |
| | | US-5930621-\$ or US-5851896-\$ or | | |
| | | US-5885877-\$ or US-5917208-\$ or | | |
| | | US-5744832-\$ or US-5798542-\$ or | | |
| | | US-5804845-\$ or US-5849605-\$ or | | |
| | | US-5739798-\$ or US-5688726-\$ or | | |
| | | US-5693560-\$).did. or (US-5708302-\$ or | | |
| | | US-5668410-\$ or US-5559399-\$ or | | |
| | | US-5596431-\$ or US-5660177-\$ or | | |
| | | US-5668040-\$ or US-5527735-\$ or | | |
| | | US-5521405-\$ or US-5555486-\$ or | | |
| | | US-5516716-\$ or US-5445711-\$ or | | |
| | | US-5441909-\$ or US-5422307-\$ or | | |
| | | US-4771211-\$ or US-4714586-\$ or | | |
| | | US-4914046-\$ or US-5005102-\$ or | | |
| | | US-4614575-\$ or US-4673455-\$ or | | |
| | | US-5739587-\$ or US-6297517-\$ or | | |
| | | US-6054721-\$ or US-6262458-\$ or | | |
| | | US-6327013-\$ or US-6402579-\$ or | | |
| | | US-6313539-\$ or US-6284654-\$).did. or | | |
| | 1 | (US-5790366-\$ or US-5873977-\$ or | | |
| | | US-5527567-\$ or US-5742122-\$ or | | |
| |] | US-4816424-\$ or US-5478610-\$ or | | |
| | | US-4167607-\$ or US-6323512-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5872419-\$ or US-5789320-\$ or | | |
| | | US-5807774-\$ or US-5587623-\$ or | | |
| | | US-5612560-\$ or US-5789268-\$ or | | |
| | | US-5229313-\$ r US-5491102-\$ r | | |
| | | US-4824796-\$ r US-5111267-\$ or | | |
| | | US-4451841-\$ r US-4251820-\$ r | | |
| | | US-6384443-\$ r US-6015990-\$ r | | |
| | 1 | US-6236090-\$ r US-6249082-\$ or | | |
| | | US-6278055-\$).did. or (US-6222204-\$ r | | |
| S arch Hie | t ry 7/8/02 | 149391383139-5 pagls38218207-\$ r | - | - |
| , arcii Mið | | eki69999999929 Cacelife 5986313-\$ or | 1 | |

| • | 17 | (((US-6211005-\$ r US-5561326-\$ r | USPAT; | 2002/07/03 |
|-----------|-------------|--|-----------|------------|
| | | US-5406447-\$ r US-6066891-\$ r | US-PGPUB; | 14:01 |
| | | US-6348735-\$ r US-6037663-\$ r | EPO; JPO; | |
| | | US-6051486-\$ r US-5973408-\$ r | DERWENT; | |
| | | US-5619393-\$ r US-5703403-\$ r | IBM_TDB | |
| | | US-5576928-\$ r US-5568422-\$ r | | |
| | 1 | US-5581436-\$ or US-5566045-\$ or | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-3773554-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-6399982-\$ or | | |
| | | US-6188097-\$ or US-6238994-\$ or | | |
| | | US-6396097-\$ or US-6346746-\$ or | | |
| | | US-6316831-\$ or US-6331356-\$).did. or | | |
| | | (US-6326936-\$ or US-6188137-\$ or | | |
| | | | | |
| | | US-6218258-\$ or US-6274899-\$ or | | |
| | | US-6218256-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6130124-\$ or | | |
| | | US-6037005-\$ or US-6016033-\$ or | | |
| | | US-6051778-\$ or US-6050827-\$ or | | |
| | | US-5998225-\$ or US-5501995-\$ or | | |
| | | US-6010918-\$ or US-5940698-\$ or | | |
| | | US-5930621-\$ or US-5851896-\$ or | | |
| | | US-5885877-\$ or US-5917208-\$ or | | |
| | | US-5744832-\$ or US-5798542-\$ or | | |
| | | US-5804845-\$ or US-5849605-\$ or | | |
| | | US-5739798-\$ or US-5688726-\$ or | | |
| | | US-5693560-\$).did. or (US-5708302-\$ or | | |
| | | US-5668410-\$ or US-5559399-\$ or | | |
| | | US-5596431-\$ or US-5660177-\$ or | | |
| | | US-5668040-\$ or US-5527735-\$ or | | |
| | | US-5521405-\$ or US-5555486-\$ or | | |
| | | US-5516716-\$ or US-5445711-\$ or | | |
| | | US-5441909-\$ or US-5422307-\$ or | | |
| | | US-4771211-\$ or US-4714586-\$ or | | |
| | | US-4914046-\$ or US-5005102-\$ or | | |
| | | • | | |
| | | US-4614575-\$ or US-4673455-\$ or | | |
| | | US-5739587-\$ or US-6297517-\$ or | | |
| | | US-6054721-\$ or US-6262458-\$ or | | |
| | | US-6327013-\$ or US-6402579-\$ or | | |
| | | US-6313539-\$ or US-6284654-\$).did. or | | |
| | | (US-5790366-\$ or US-5873977-\$ or | | |
| | | US-5527567-\$ or US-5742122-\$ or | | 1 |
| | | US-4816424-\$ or US-5478610-\$ or | | |
| | | US-4167607-\$ or US-6323512-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5872419-\$ or US-5789320-\$ or | | |
| | | US-5807774-\$ or US-5587623-\$ or | | 1 |
| | | US-5612560-\$ or US-5789268-\$ or | | |
| | | US-5229313-\$ or US-5491102-\$ r | | |
| | | US-4824796-\$ or US-5111267-\$ r | | 1 |
| | | US-4451841-\$ r US-4251820-\$ r | | |
| | | US-6384443-\$ or US-6015990-\$ r | | |
| | | US-6236090-\$ r US-6249082-\$ r | | 1 |
| | | US-6278055-\$).did. r (US-6222204-\$ r | | |
| | =:=:=: | · · · · · · · · · · · · · · · · · · · | | |
| earch His | | 14930138 149-5 pagUS38218207-5 r | | |
| ·\APPS\ea | st\w rkspac | е Ы699999999029_€ас еЫ%аБ986313-\$r | 1 | 1 |

| | 9 | ((((US-6211005-\$ or US-5561326-\$ r | USPAT; | 2002/07/03 |
|-------------|------------|---|-----------|--------------|
| • | 3 | US-5406447-\$ r US-6066891-\$ r | US-PGPUB: | |
| | | US-6348735-\$ r US-6037663-\$ r | EPO; JPO; | |
| | | US-6051486-\$ r US-5973408-\$ r | DERWENT; | |
| | | US-5619393-\$ r US-5703403-\$ r | IBM_TDB | |
| | | US-5576928-\$ r US-5568422-\$ r | | |
| | | US-5581436-\$ or US-5566045-\$ or | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-3773554-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-6399982-\$ or | | |
| : | | US-6188097-\$ or US-6238994-\$ or | | |
| | | US-6396097-\$ or US-6346746-\$ or | | |
| : | | US-6316831-\$ or US-6331356-\$).did. or | | |
| | | (US-6326936-\$ or US-6188137-\$ or | | |
| | | US-6218258-\$ or US-6274899-\$ or | | |
| | | US-6218256-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6130124-\$ or | | |
| | | US-6037005-\$ or US-6016033-\$ or | | |
| | | US-6051778-\$ or US-6050827-\$ or | | |
| | | US-5998225-\$ or US-5501995-\$ or | | |
| | | US-6010918-\$ or US-5940698-\$ or | | |
| | | US-5930621-\$ or US-5851896-\$ or | | |
| | | US-5885877-\$ or US-5917208-\$ or | | |
| | | US-5744832-\$ or US-5798542-\$ or | | |
| | | US-5804845-\$ or US-5849605-\$ or | | |
| | | US-5739798-\$ or US-5688726-\$ or | | |
| | | US-5693560-\$).did. or (US-5708302-\$ or | | |
| | | US-5668410-\$ or US-5559399-\$ or | | |
| | | US-5596431-\$ or US-5660177-\$ or | | |
| | | US-5668040-\$ or US-5527735-\$ or | | |
| | | US-5521405-\$ or US-5555486-\$ or | | |
| | | US-5516716-\$ or US-5445711-\$ or | | |
| | | US-5441909-\$ or US-5422307-\$ or | | |
| | | US-4771211-\$ or US-4714586-\$ or | | |
| | | US-4914046-\$ or US-5005102-\$ or | | |
| | | US-4614575-\$ or US-4673455-\$ or | | |
| | | US-5739587-\$ or US-6297517-\$ or | | |
| | | US-6054721-\$ or US-6262458-\$ or | | |
| | | US-6327013-\$ or US-6402579-\$ or | | |
| | | US-6313539-\$ or US-6284654-\$).did. or | | |
| | | (US-5790366-\$ or US-5873977-\$ or | | |
| | | US-5527567-\$ or US-5742122-\$ or | | |
| | | US-4816424-\$ or US-5478610-\$ or | | |
| | | US-4167607-\$ or US-6323512-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5872419-\$ or US-5789320-\$ or | | |
| | | US-5807774-\$ or US-5587623-\$ or | | |
| | | US-5612560-\$ or US-5789268-\$ or | | |
| | | US-5229313-\$ r US-5491102-\$ r | | |
| | | US-4824796-\$ r US-5111267-\$ r | | |
| | | US-4451841-\$ r US-4251820-\$ r | | |
| | | | | 1 |
| | | US-6384443-\$ or US-6015990-\$ or | | |
| | | US-6236090-\$ r US-6249082-\$ r | | |
| | | US-6278055-\$).did. r (US-6222204-\$ r | | |
| | | 14830138 250-5 PaddS48218207-5 r | | |
| u:\APP5\eas | tiw rkspac | e U69999992225 cae US 65986313-\$ r | | |
| | | US-5907188-\$ or US-5701035-\$ r | I | 1 |

| - | 6 | (((((US-6211005-\$ r US-5561326-\$ r | USPAT; | 2002/07/03 |
|-----------|--------------|--|-----------|------------|
| | | US-5406447-\$ r US-6066891-\$ r | US-PGPUB; | 14:05 |
| | | US-6348735-\$ r US-6037663-\$ r | EP ; JPO; | |
| | | US-6051486-\$ r US-5973408-\$ r | DERWENT; | |
| | | US-5619393-\$ r US-5703403-\$ r | IBM_TDB | |
| | | US-5576928-\$ r US-5568422-\$ or | _ | |
| | | US-5581436-\$ or US-5566045-\$ or | | |
| | | US-5420612-\$ or US-5411912-\$ or | | |
| | | US-3773554-\$ or US-5382817-\$ or | | |
| | | US-5336922-\$ or US-6399982-\$ or | | |
| | | US-6188097-\$ or US-6238994-\$ or | | |
| | | US-6396097-\$ or US-6346746-\$ or | | |
| | | US-6316831-\$ or US-6331356-\$).did. or | | |
| | | (US-6326936-\$ or US-6188137-\$ or | | |
| | | US-6218258-\$ or US-6274899-\$ or | | |
| | | US-6218256-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6130124-\$ or | | |
| | | US-6037005-\$ or US-6016033-\$ or | | |
| | | US-6051778-\$ or US-6050827-\$ or | | |
| | | US-5998225-\$ or US-5501995-\$ or | | |
| | | US-6010918-\$ or US-5940698-\$ or | | |
| | | US-5930621-\$ or US-5851896-\$ or | | |
| | | US-5885877-\$ or US-5917208-\$ or | | |
| | | US-5744832-\$ or US-5798542-\$ or | | |
| | | US-5804845-\$ or US-5849605-\$ or | | |
| | | | | |
| | | US-5739798-\$ or US-5688726-\$ or | | |
| | | US-5693560-\$).did. or (US-5708302-\$ or | | |
| | | US-5668410-\$ or US-5559399-\$ or | | |
| | | US-5596431-\$ or US-5660177-\$ or | | |
| | | US-5668040-\$ or US-5527735-\$ or | | |
| | 1 | US-5521405-\$ or US-5555486-\$ or | | |
| | | US-5516716-\$ or US-5445711-\$ or | | |
| | | US-5441909-\$ or US-5422307-\$ or | | |
| | | US-4771211-\$ or US-4714586-\$ or | | |
| | | US-4914046-\$ or US-5005102-\$ or | | |
| | | US-4614575-\$ or US-4673455-\$ or | | |
| | | US-5739587-\$ or US-6297517-\$ or | | |
| | | US-6054721-\$ or US-6262458-\$ or | | |
| | | US-6327013-\$ or US-6402579-\$ or | | |
| | | US-6313539-\$ or US-6284654-\$).did. or | | |
| | | (US-5790366-\$ or US-5873977-\$ or | | |
| | | US-5527567-\$ or US-5742122-\$ or | | |
| | | US-4816424-\$ or US-5478610-\$ or | | |
| | | US-4167607-\$ or US-6323512-\$ or | | |
| | | US-6148221-\$ or US-5964794-\$ or | | |
| | | US-5872419-\$ or US-5789320-\$ or | | |
| | | US-5807774-\$ or US-5587623-\$ or | | |
| | | US-5612560-\$ or US-5789268-\$ or | | |
| | | US-5229313-\$ r US-5491102-\$ or | | |
| | | US-4824796-\$ r US-5111267-\$ r | | |
| | | US-4451841-\$ or US-4251820-\$ or | | |
| | | US-6384443-\$ or US-6015990-\$ r | | |
| | | US-6236090-\$ r US-6249082-\$ r | | 1 |
| | | US-6278055-\$).did. r (US-6222204-\$ r | | |
| | | 149301363 15M-\$ padls46218207-\$ r | | |
| :\APPS\ea | așt∖w rkspac | е Ы,69992020029-€ас еЫ%аБ986313-\$r | | |
| | | US-5907188-\$ r US-5701035-\$ r | | |

| • | 10 | "int rface r sistance" and " lectr de | USPAT; | 2002/07/03 |
|---|----|--|-----------|------------|
| | | structure" and ("titanium nitride" r TiN) | US-PGPUB; | 14:07 |
| | | | EP ; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| • | 26 | "interface r sistance" and ("titanium | USPAT; | 2002/07/03 |
| | | nitride" or TiN) and (second near10 (barrier | US-PGPUB; | 14:13 |
| | | or "titanium nitride" or TiN)) | EPO; JPO; | |
| | | · | DERWENT; | |
| | | | IBM_TDB | |
| • | 21 | "interface resistance" and ("titanium | USPAT; | 2002/07/03 |
| | | nitride" or TiN) and (second near5 (barrier or | US-PGPUB; | 14:18 |
| | | "titanium nitride" or TiN)) | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |

| • | 212 | (US-6413858-\$ or US-6410986-\$ or | USPAT; | 2002/07/03 |
|----------|-------------|--|-----------|------------|
| | | US-6410420-\$ r US-6403417-\$ r | US-PGPUB; | 14:26 |
| | | US-6402579-\$ r US-6399982-\$ r | EPO; | |
| | | US-6396097-\$ r US-6384443-\$ r | DERWENT | |
| | | US-6376351-\$ r US-6368900-\$ r | | |
| | | US-6348735-\$ or US-6346746-\$ r | | |
| | | US-6344411-\$ or US-6339246-\$ or | | |
| | | US-6331356-\$ or US-6327013-\$ or | | |
| | | US-6326936-\$ or US-6323512-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316831-\$ or US-6316360-\$ or | | |
| | | US-6313539-\$ or US-6297517-\$ or | | |
| | | US-6297153-\$ or US-6291340-\$).did. or | | |
| | | (US-6284654-\$ or US-6284611-\$ or | | |
| | | US-6278055-\$ or US-6274899-\$ or | | |
| | | US-6271573-\$ or US-6265738-\$ or | | |
| | | US-6262485-\$ or US-6262458-\$ or | | |
| | | US-6249082-\$ or US-6238994-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6229211-\$ or US-6228731-\$ or | | |
| | | US-6222267-\$ or US-6222204-\$ or | | |
| | | US-6218258-\$ or US-6218256-\$ or | | |
| | | US-6218207-\$ or US-6215186-\$ or | | |
| | | US-6211005-\$ or US-6188137-\$ or | | |
| | | US-6188097-\$ or US-6187676-\$ or | | |
| | | US-6180522-\$ or US-6148221-\$ or | | |
| | | US-6136658-\$).did. or (US-6133150-\$ or | | |
| | | US-6130124-\$ or US-6124639-\$ or | | |
| | | US-6121134-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6081034-\$ or | | |
| | | · | | |
| | | US-6066891-\$ or US-6054721-\$ or | | |
| | | US-6054191-\$ or US-6051778-\$ or US-6051486-\$ or US-6050827-\$ or | | |
| | | US-6037663-\$ or US-6037005-\$ or | | |
| | | US-6022801-\$ or US-6016033-\$ or | | |
| | | | | |
| | | US-6015990-\$ or US-6010918-\$ or | | |
| | | US-5998225-\$ or US-5986313-\$ or | | |
| | 1 | US-5973408-\$ or US-5973402-\$ or | | |
| | | US-5966629-\$ or US-5964794-\$ or | | |
| | | US-5940698-\$ or US-5930621-\$).did. or | | |
| | | (US-5917208-\$ or US-5907188-\$ or | | |
| | | US-5903053-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5885877-\$ or | | |
| | | US-5873977-\$ or US-5872419-\$ or | | |
| | | US-5851896-\$ or US-5849605-\$ or | | |
| | | US-5840609-\$ or US-5807774-\$ or | | |
| | | US-5804845-\$ or US-5804834-\$ or | | |
| | | US-5798542-\$ or US-5793600-\$ or | | |
| |] | US-5790366-\$ r US-5789320-\$ r | | |
| | | US-5789268-\$ r US-5780908-\$ r | | |
| | | US-5759916-\$ r US-5747116-\$ r | | |
| | | US-5744832-\$ r US-5742122-\$ r | | |
| | | US-5739798-\$ r US-5739587-\$ r | | |
| | | US-5723382-\$).did. or (US-5721175-\$ r | | |
| arch His | tory 7/8/02 | 14935736904-\$ PaglS48712193-\$ r | | |
| | 1 - | e4.69972283022-Seen HSn5705428-\$ r | 1 | į. |

| | 00 | //IIC C442050 C IIC C44000C C | HCDAT. | 2002/07/02 |
|-------------|-----------|--|-----------|------------|
| - | 22 | ((US-6413858-\$ or US-6410986-\$ or | USPAT; | 2002/07/03 |
| | | US-6410420-\$ r US-6403417-\$ r | US-P PUB; | 14:27 |
| | | US-6402579-\$ or US-6399982-\$ r | EPO; JPO; | |
| | | US-6396097-\$ or US-6384443-\$ r | DERWENT; | |
| | | US-6376351-\$ or US-6368900-\$ r | IBM_TDB | |
| | | US-6348735-\$ r US-6346746-\$ r | | |
| | | US-6344411-\$ or US-6339246-\$ or | | |
| | | US-6331356-\$ or US-6327013-\$ or | | |
| | | US-6326936-\$ or US-6323512-\$ or | | |
| | | US-6323115-\$ or US-6320261-\$ or | | |
| | | US-6316831-\$ or US-6316360-\$ or | | |
| | | US-6313539-\$ or US-6297517-\$ or | | |
| | | US-6297153-\$ or US-6291340-\$).did. or | | |
| | | (US-6284654-\$ or US-6284611-\$ or | | |
| | | US-6278055-\$ or US-6274899-\$ or | | |
| | | US-6271573-\$ or US-6265738-\$ or | | |
| | | US-6262485-\$ or US-6262458-\$ or | | |
| | | US-6249082-\$ or US-6238994-\$ or | | |
| | | US-6236090-\$ or US-6235630-\$ or | | |
| | | US-6229211-\$ or US-6228731-\$ or | | |
| | | US-6222267-\$ or US-6222204-\$ or | | |
| | | US-6218258-\$ or US-6218256-\$ or | | |
| | | US-6218207-\$ or US-6215186-\$ or | | |
| | | US-6211005-\$ or US-6188137-\$ or | | |
| | | US-6188097-\$ or US-6187676-\$ or | | |
| | | US-6180522-\$ or US-6148221-\$ or | | |
| | | US-6136658-\$).did. or (US-6133150-\$ or | | |
| | | US-6130124-\$ or US-6124639-\$ or | | |
| | | US-6121134-\$ or US-6114198-\$ or | | |
| | | US-6089442-\$ or US-6081034-\$ or | | |
| - | | US-6066891-\$ or US-6054721-\$ or | | |
| | | US-6054191-\$ or US-6051778-\$ or | | |
| | | US-6051486-\$ or US-6050827-\$ or | | |
| | | US-6037663-\$ or US-6037005-\$ or | | |
| | | US-6022801-\$ or US-6016033-\$ or | | |
| | | US-6015990-\$ or US-6010918-\$ or | | |
| | | US-5998225-\$ or US-5986313-\$ or | | |
| | | US-5973408-\$ or US-5973402-\$ or | | |
| | | US-5966629-\$ or US-5964794-\$ or | | |
| | | US-5940698-\$ or US-5930621-\$).did. or | | |
| | | (US-5917208-\$ or US-5907188-\$ or | | |
| | | US-5903053-\$ or US-5885898-\$ or | | |
| | | US-5885896-\$ or US-5885877-\$ or | | |
| | | US-5873977-\$ or US-5872419-\$ or | | |
| | | US-5851896-\$ or US-5849605-\$ or | | |
| | | US-5840609-\$ or US-5807774-\$ or | | |
| 1 | | US-5804845-\$ or US-5804834-\$ or | | |
| | | US-5798542-\$ or US-5793600-\$ or | | |
| | | US-5790366-\$ r US-5789320-\$ r | | |
| | | US-5789268-\$ r US-5780908-\$ r | | |
| | | US-5759916-\$ r US-5747116-\$ r | | |
| | | US-5744832-\$ r US-5742122-\$ or | | |
| | | US-5739798-\$ r US-5739587-\$ r | | |
| | | US-5723382-\$).did. r (US-5721175-\$ r | | |
| S arch Hint | ny 7/9/02 | 1483073690M-\$ pagls.6712193-\$ r | | |
| | | 4698208302-€aceMSp705428-\$ r | | |
| J.MFF JICAS | Inspac | US-5703403-\$ or US-5701035-\$ r | | |
| 1 | 1 | , | ī | 1 |